

(54) HAND BOARD
(76) Inventor: Glen Falconer, 325 S. Washington
#148, Kent, Wash. 98032
[*] Term: 14 Years
(21) Appl. No.: 29/081,544
(22) Filed: Jan. 5, 1998
(51) LOC (6) Cl. 21-06
(52) U.S. Cl. D21/897; D21/806
(58) Field of Search D21/801-810;
441/54, 57, 58, 59

3,742,539 7/1973 Ostrowski et al. 441/58
4,233,925 11/1980 Proctor 441/101
4,693,663 1/1985 Richmond 441/101
4,529,744 4/1985 Bessley 272/116
4,669,991 6/1987 Southworth 441/57
4,913,418 4/1990 Schuster et al. 272/71
5,147,233 9/1992 Hamish 441/58

Primary Examiner—Kay H. Chin

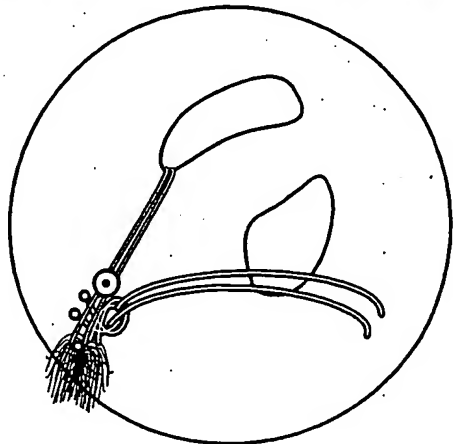
(57) CLAIM

I claim the ornamental design for a hand board, as shown and described.

DESCRIPTION

FIG. 1 is a side elevational view of my hand board showing an unassembled condition.
FIG. 2 is a top plan view of FIG. 1.
FIG. 3 is a top plan view of the safety jesses' with slider ball and a knot on the end.
FIG. 4 is a top plan view of the wrist cord with a knot on each end.
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.
FIG. 6 is a side elevational view of FIG. 5; and,
FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets



Cool
SkyBoard



(54) HAND BOARD
(76) Inventor: Glen Falconer, 325 S. Washington
#148, Kent, Wash. 98032
[*] Term: 14 Years
(21) Appl. No.: 29/081,543
(22) Filed: Jan. 5, 1998
(51) LOC (6) Cl. 21-06
(52) U.S. Cl. D21/897; D21/806
(58) Field of Search D21/801-810;
441/54, 57, 58, 61-64

3,742,539 7/1973 Ostrowski et al. 441/58
4,233,925 11/1980 Proctor 441/101
4,693,663 1/1985 Richmond 441/101
4,529,744 4/1985 Bessley 272/116
4,669,991 6/1987 Southworth 441/57
4,913,418 4/1990 Schuster et al. 272/71
5,147,233 9/1992 Hamish 441/58

Primary Examiner—Kay H. Chin

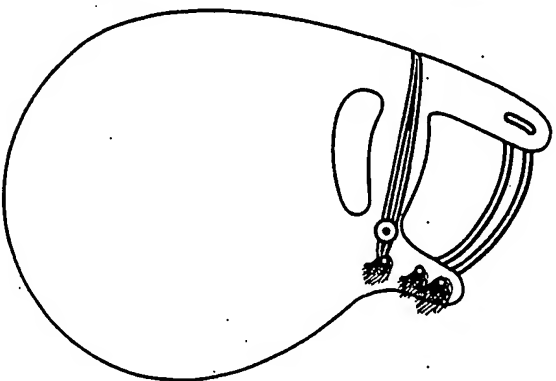
(57) CLAIM

I claim the ornamental design for a hand board, as shown and described.

DESCRIPTION

FIG. 1 is a side elevational view of my hand board showing an unassembled condition.
FIG. 2 is a top plan view of FIG. 1.
FIG. 3 is a top plan view of the safety jesses' with slider ball and a knot on the end.
FIG. 4 is a top plan view of the wrist cord with a knot on each end.
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.
FIG. 6 is a side elevational view of FIG. 5; and,
FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets



Coastin' in the Shade

(54) HAND BOARD
(76) Inventor: Glen Falconer, 325 S. Washington
#148, Kent, Wash. 98032
[*] Term: 14 Years
(21) Appl. No.: 29/081,545
(22) Filed: Jan. 5, 1998
(51) LOC (6) Cl. 21-06
(52) U.S. Cl. D21/897; D21/806
(58) Field of Search D21/801-810;
441/54, 57, 58, 61-64

3,742,539 7/1973 Ostrowski et al. 441/58
4,233,925 11/1980 Proctor 441/101
4,693,663 1/1985 Richmond 441/101
4,529,744 4/1985 Bessley 272/116
4,669,991 6/1987 Southworth 441/57
4,913,418 4/1990 Schuster et al. 272/71
5,147,233 9/1992 Hamish 441/58

Primary Examiner—Kay H. Chin

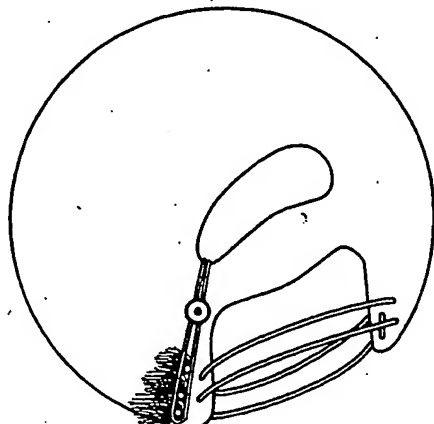
(57) CLAIM

I claim the ornamental design for a hand board, as shown and described.

DESCRIPTION

FIG. 1 is a side elevational view of my hand board showing an unassembled condition.
FIG. 2 is a top plan view of FIG. 1.
FIG. 3 is a top plan view of the safety jesses' with slider ball and a knot on the end.
FIG. 4 is a top plan view of the wrist cord with a knot on each end.
FIG. 5 is a top plan view of my hand board in an assembled condition with wrist cords and safety jesses'.
FIG. 6 is a side elevational view of FIG. 5; and,
FIG. 7 is a bottom plan view of FIG. 5.

1 Claim, 2 Drawing Sheets



Sweet

BEST AVAILABLE COPY

[54] HANDTOOL
[76] Inventor: Dan W. Harrison, Rte. 1, Box 570, Brownsboro, Tex. 73754
[21] Appl. No.: 446,780
[22] Filed: Dec. 3, 1982
[51] Int. Cl.: B25F 1/00; B25G 1/06
[52] U.S. Cl.: 7/145; 30/151
[58] Field of Search: 7/145, 144, 143; 30/151, 153

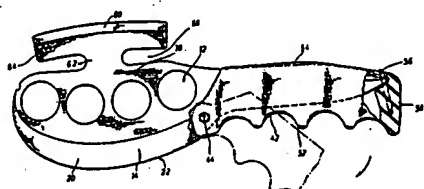
1,018,403 10/1933 Case et al.
1,230,443 4/1942 Williamson
1,539,489 7/1951 Truesdell
1,721,340 10/1953 Schaefer
1,820,291 1/1938 Phillips
1,321,743 5/1967 Ives
1,581,326 3/1966 Hayes

Primary Examiner—Roscoe V. Parker
Attorney, Agent, or Firm—Arnold, White & Durkin

ABSTRACT

There is provided an improved hand tool having a body portion with an axe blade attached thereto. A knife blade extends from the body portion and a sheath is pivotally mounted on the body portion so as to be movable between first and second positions. The sheath is configured to cover the knife blade when the sheath is in the first position and to cover the axe blade when the sheath is in the second position.

20 Claims, 3 Drawing Figures



References Cited

U.S. PATENT DOCUMENTS
81,479 10/1864 Holzschneider
D. 370,653 9/1901 Collins
440,905 11/1890 Seimsche
983,786 1/1911 Humphries
1,176,172 1/1916 Beckham et al.
1,183,250 3/1916 Seelye

[54] HANDTOOL
[76] Inventor: Arthur S. C. Magan, 15, Heynesbury Lane, Dublin 4, Ireland
[**] Term: 14 Years
[21] Appl. No.: 461,466
[22] Filed: Jan. 27, 1983
[52] U.S. Cl.: D8/105; D4/32
[58] Field of Search: D8/31, 32, 34-40; D4/23, 25, 14, 104, 106, 103, 99; 7/118, 119, 125, 132, 142, 143, 144, 166, 167

1411336 10/1975 United Kingdom

OTHER PUBLICATIONS

Radio Shack Corp. Mail Order Brochure, 1/21/1953, 3 Blade Gripper/Cutter, No. R-8275.
Primary Examiner—Susan J. Lucas
Assistant Examiner—C. E. Hefflin
Attorney, Agent, or Firm—Young & Thompson

CLAIM

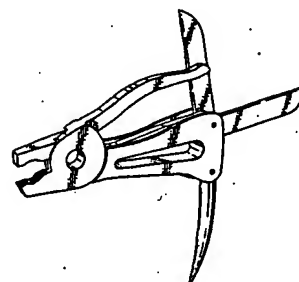
The ornamental design for a handtool, substantially as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the handtool showing my new design with the various components shown in the open position;
FIG. 2 is a side view from the right hand side of the handtool showing my new design with the various components shown in the closed position;
FIG. 3 is a side view from the left hand side thereof;
FIG. 4 is a top view thereof;
FIG. 5 is a bottom view thereof;
FIG. 6 is a front view thereof; and
FIG. 7 is a rear view of the handtool of my new design.

References Cited

U.S. PATENT DOCUMENTS
329,503 11/1885 Tietzen
341,793 4/1895 Scheidt
1,491,511 4/1923 Bengert
4,122,549 10/1978 Hickcock
FOREIGN PATENT DOCUMENTS
106554 3/1943 Sweden
14118 1/1914 United Kingdom
697921 10/1953 United Kingdom



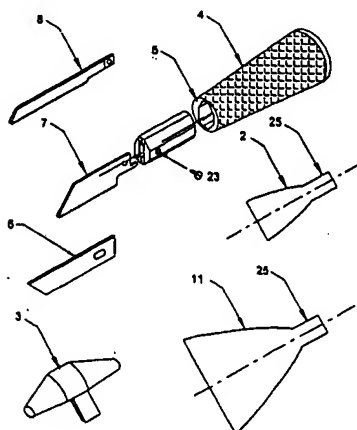
[54] MULTI-FUNCTIONAL HAND TOOL
[76] Inventor: Antonio Moreira, 17 Gail Rd., Morristown, N.J. 07954

Primary Examiner—Dale Scherbel
Assistant Examiner—Joel B. Diagonano
Attorney, Agent, or Firm—Scott B. Garrison; Lambert & Garrison PLLC

ABSTRACT

A multi-functional hand tool is provided having a handle portion to be held by a user. The handle portion is made to receive a plurality of different types of tool attachments. To secure these tool attachments, a plurality of slots are machined into an attachment portion of the hand tool. The attachment portion is simply a rigid element which can receive, retain and rigidly secure one of the tool attachments within one of the slots. The slots are sized differently to accommodate various marketed tool attachments, such as jig saw blades, reciprocating saw blades, utility knives, et. al. Further, putty knives, and striking implements can be made bearing a suitable tang for engaging one of the slots. The device is meant to be used as an all purpose sawing, cutting, scraping, spreading and striking implement which would replace a great deal of expensive tools commonly needed by apartment dwellers, students, and "do-it-yourselfers".

5 Claims, 5 Drawing Sheets



[21] Appl. No.: 819,429
[22] Filed: Mar. 17, 1997
[51] Int. Cl.: B25G 1/00
[52] U.S. Cl.: 7/167; 81/489; 81/124.4
[58] Field of Search: 7/167, 158, 170; 81/489, 487, 329, 337, 339, 342, 124.4; 30/244

References Cited

U.S. PATENT DOCUMENTS
202,105 4/1878 Gladwin
1,097,043 5/1934 Holder
1,980,087 11/1934 Rose
2,737,704 3/1956 Casco
4,042,118 12/1977 Medallini
4,512,381 4/1985 Alvarez
4,700,420 10/1987 Delaney
5,058,463 10/1991 Wenzel
5,615,746 4/1997 Cho
FOREIGN PATENT DOCUMENTS
72029 11/1893 Germany

[54] TROWEL AND SCREWDRIVER COMBINATION HANDTOOL
[76] Inventor: Wayne Anderson, 65 Grove St., Paolo Caswell, 8 N. Creek Rd., both of Northport, N.Y. 11758

5,251,352 10/1993 Collins
5,515,249 3/1996 Shale
5,711,194 1/1998 Anderson et al.
5,720,053 2/1998 Chene
5,870,786 2/1999 Papadopoulos
5,927,144 7/1999 Anderson et al.
5,959,788 9/1999 Healy

Primary Examiner—David A. Scherbel
Assistant Examiner—Lee Wilson
Attorney, Agent, or Firm—Lachszbach Siegel Marmiro Avocato & Georagan, P.C.

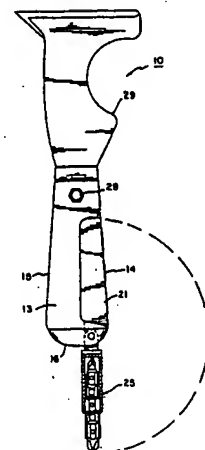
ABSTRACT

A combination trowel and screwdriver is provided wherein the trowel handle houses and removably retains a tool bit drive assembly which houses a plurality of tool bit or screw drivers. The user pivots the tool bit drive assembly housing away from the handle to a position extending in the proximate direction from the handle. The user then selects the desired tool bit drive for insertion at the proximate end of the handle and with the proximate end of the handle screws the screw into a recessed position in a wallboard construction. The user then retracts or pivots the tool bit drive assembly into the handle, and then uses the trowel and putty or spreads a wallboard plastic or finishing material over the recessed screw head to finish the wall.

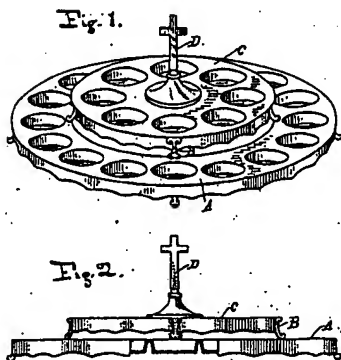
[21] Appl. No.: 09/436,894
[22] Filed: Nov. 9, 1999
Related U.S. Application Data
Continuation of application No. 09/134,684, Aug. 14, 1998, and a continuation-in-part of application No. 09/237,784, Jan. 26, 1999, which is a continuation of application No. 08/977,227, Nov. 24, 1997, Pat. No. 5,727,194, which is a continuation of application No. 08/451,398, May 26, 1995, Pat. No. 5,711,194.
[51] Int. Cl.: B44C 7/00
[52] U.S. Cl.: 7/105; 7/167; 7/118; 7/128
[58] Field of Search: 7/105, 118, 125, 7/165, 167

References Cited
U.S. PATENT DOCUMENTS
4,512,692 4/1985 Swenson
5,043,627 11/1991 Moore

15 Claims, 3 Drawing Sheets

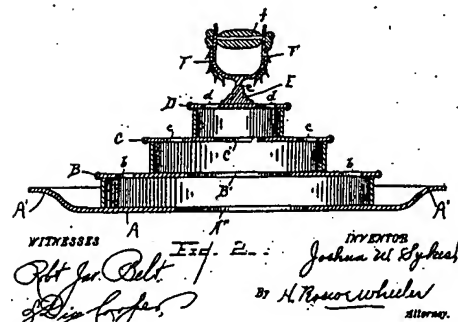
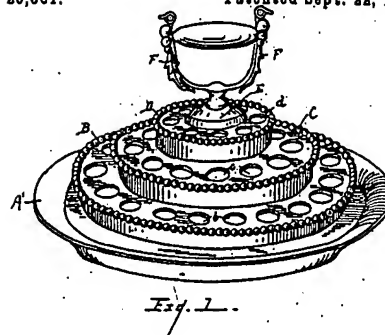


DESIGN.
E. J. HOWE.
COMMUNION SERVICE TRAY.
No. 23,901. Patented Dec. 25, 1894.



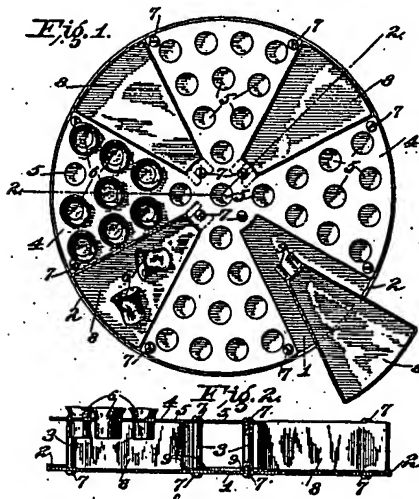
Witnesses:
Edw. J. Howe
S. A. Cunningham
Inventor
Edwin J. Howe,
By L. S. Benson
Att'y.

DESIGN.
J. W. SYKES.
COMMUNION SERVICE TRAY.
No. 26,061. Patented Sept. 22, 1896.



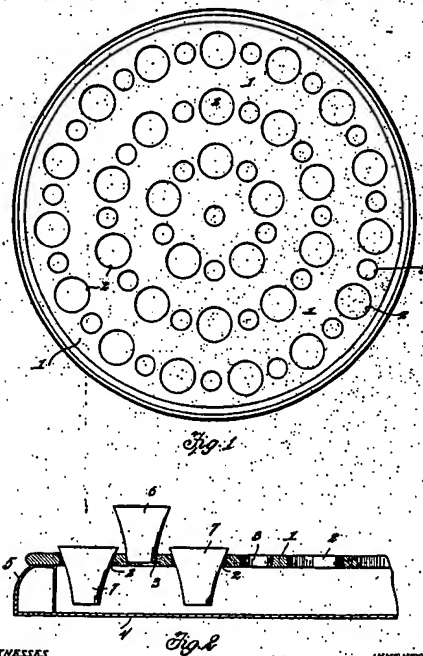
Witnesses:
J. W. Sykes
S. A. Cunningham
Inventor
Joshua W. Sykes,
By H. R. Wheeler
Att'y.

W. D. CREE & H. F. DAVIS.
COMMUNION SERVICE.
982,351. APPLICATION FILED OCT. 5, 1916. Patented Jan. 24, 1911.



Witnesses:
W. D. Cree & H. F. Davis
S. A. Cunningham
Inventors
W. D. Cree & H. F. Davis,
By S. A. Cunningham
Att'ys.

A. C. HUSTED.
COMMUNION TRAY.
1,199,987. APPLICATION FILED APR. 5, 1916. Patented Oct. 3, 1916.



Witnesses:
A. C. Husted
W. C. Vanecko
Inventor
Alfred C. Husted,
By W. C. Vanecko
Att'y.

[54] TABLE TENNIS PADDLE

[75] Inventor: John J. Brown, 419 E. Chapman St.,
Ely, Minn. 55731.

[76] Term: 14 Years

[21] Appl. No.: 838,119

[22] Filed: Sep. 25, 1977

[31] Int. Cl. _____ D21-41
[32] U.S. Cl. _____ D21/213
[34] Field of Search _____ D24/1 SP, 13 F, 27/74,
27/97 B, 67 R

[56] References Cited

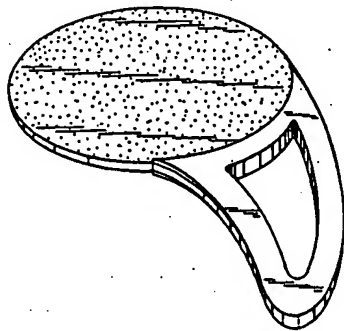
FOREIGN PATENT DOCUMENTS

210234 1/1972 Fed. Rep. of Germany — 273/67 B
23371 of 1961 United Kingdom — 273/76Primary Examiner—Melvin R. Felber
Attorney, Agent or Firm—Norman F. Friederichs

[57] CLAIM

The ornamental design for a table tennis paddle, as
shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a table tennis paddle
showing my new design.
FIG. 2 is a side view; and
FIG. 3 is a top view the bottom view being a mirror
image of the top.

United States Patent (19)

McPoye

US000199258A

(11) Patent Number: 5,139,258

(45) Date of Patent: Aug. 18, 1992

[54] PADDLE BALL RACQUET

[75] Inventor: Stephen F. McPoye, Lake Worth,
Fla.[76] Assignee: Party Pong Inc., West Palm Beach,
Fla.

[21] Appl. No.: 830,370

[22] Filed: Jan. 31, 1992

[31] Int. Cl. _____ A63B 89/04

[32] U.S. Cl. _____ 273/76, 273/73 J,
273/30[34] Field of Search _____ 273/73 R, 73 G, 73 J,
273/76, 29 R, 29 A, 30

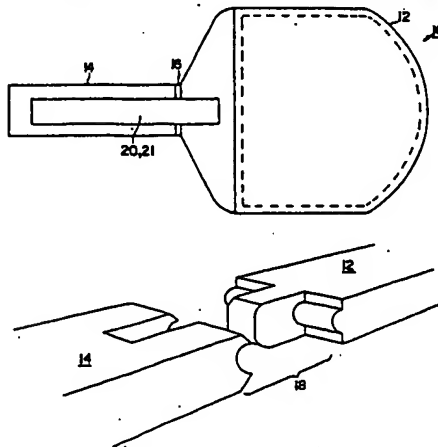
FOREIGN PATENT DOCUMENTS

0334386 5/1922 Fed. Rep. of Germany — 273/73 G
2590802 4/1987 France — 273/73 J
0431994 1/1933 United Kingdom — 273/73 GPrimary Examiner—William E. Smith
Attorney, Agent or Firm—John H. Fero

[57] ABSTRACT

A paddle ball racquet for a slow paced table tennis
game is heretofore disclosed. The racquet is modified to
eliminate the advantage of the power player by imparting
flex or articulation between the racquet handle and the
paddle surface. The design parameters of the racquet
prevent accurate returns of the game ball if the
racquet speed exceeds certain empirically determined
limits. Accordingly, the racquet handicaps the power
player and thereby emphasizes accuracy in shot place-
ment. The racquet of this invention can be used in con-
ventional table tennis or, in conjunction with a unique
table tennis layout designed for accurate shot place-
ment.

4 Claims, 4 Drawing Sheets



United States Patent (19)

Tea

(11) 4,324,400

(45) Apr. 13, 1982

[54] TABLE TENNIS BAT BLADE

[75] Inventor: Jackson Tea, Bellevue, Wash.

[76] Assignee: EST Industries, Inc., Wash.

[21] Appl. No.: 64,333

[22] Filed: Aug. 4, 1979

[31] Int. Cl. _____ A63B 59/04

[32] U.S. Cl. _____ 273/76, 273/DIG. 2,
273/DIG. 23[34] Field of Search _____ 273/73 F, 74, DIG. 2,
273/23, 67 R, 67 A, 67 D

FOREIGN PATENT DOCUMENTS

241424 10/1976 Fed. Rep. of Germany — 273/76
243280 3/1977 Fed. Rep. of Germany — 273/76
198816 3/1971 France — 273/76
776645 6/1957 United Kingdom — 273/67 D
148436 5/1976 United Kingdom — 273/76

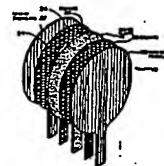
OTHER PUBLICATIONS

"Research Disclosure", Disclosure No. 11644, Dec.
1973.Primary Examiner—Richard J. Apley
Attorney, Agent or Firm—Graybeal & Uhlir

[57] ABSTRACT

The blade for a table tennis bat includes a layer of light-
weight, low modulus of elasticity material positioned
centrally with respect to the thickness of the blade and
overlaid by a constraining layer of high modulus of
elasticity material. The blade also includes a smooth,
rigid outer layer bonded to the outer surfaces of the two
constraining layers. The constraining layers are com-
posed of strands of stretch resistant material woven
transversely to each other to form a mesh.

3 Claims, 3 Drawing Figures



(12) United States Patent

Mizeracki et al.

(10) Patent No.: US 6,234,919 B1

(45) Date of Patent: May 22, 2001

[54] TABLE TENNIS HANDLE-LESS RACQUET
AND MULTIPURPOSE COMBINATION
TABLE[75] Inventor: Martin Tom Mizeracki, 39 Bunker
Hill Ln., Russellville, AR (US) 72802;
Martha Robert Mizeracki, 3301
Meadow Wood Ln., Bedford, TX (US)
76021(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

[21] Appl. No.: 09/403,253

[22] Filed: Sep. 23, 1999

[31] Int. Cl. _____ A63B 47/04

[32] U.S. Cl. _____ 473/494; 473/435; 473/470;
108/170[34] Field of Search _____ 273/309; 473/496,
473/491, FOR 113, 4, 10, 14, 15; 106/93-95,
62-63, 94; 254/1002,911,217 * 11/1959 Hinch et al. — 473/435
3,518,269 * 5/1967 Elm — 108/170
4,302,766 * 11/1981 Rayson — 273/108.1
4,583,497 * 4/1986 Tibney — 108/19
5,074,356 * 12/1991 Leppley et al. — 273/108.5
5,372,364 * 12/1994 Aveyo — 273/108.5
5,451,046 * 5/1995 Dames — 473/470
5,704,683 * 1/1998 Cooper et al. — 273/108

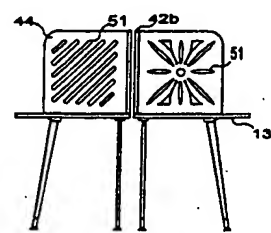
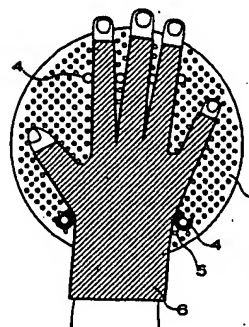
* cited by examiner

Primary Examiner—Joanette Chapman
Assistant Examiner—Mitra Artyshon

[57] ABSTRACT

A table tennis handle-less paddle or racquet, and a multi-
purpose sport & entertainment game-study convertible table
are disclosed. A racquet is characterized by combination of
two separate impact surfaces, between which a player's hand
is inserted. The racquet and games are specifically
designed as an integrated package, to develop motor skills
for the youngest players, and to facilitate learning table
tennis, starting from age five to six. A concept of novel
hardware is also applicable to older children and adults as
well. A multipurpose convertible table is constructed to
serve as a game apparatus (table tennis or surface propelled
puck game), or as a student study-work fixture.

4 Claims, 3 Drawing Sheets



[54] APPARENT WIND INDICATION DEVICE

[76] Inventor: Michael L. Perrella, 4894
Payetteville Marine Rd., Manlius,
N.Y. 13104

[21] Appl. No. 774,828

[22] Filed: Mar. 4, 1977

[51] Int. Cl.³ G01W 1/00

[52] U.S. Cl. 73/188; 114/114 R;

[53] Field of Search 114/114 C; 73/188;

114/173, 114 R

[56] References Cited

U.S. PATENT DOCUMENTS

3,771,329 3/1984 Tulman 73/188

3,945,774 11/1974 Deane 73/188

Primary Examiner—George E. A. Halverson

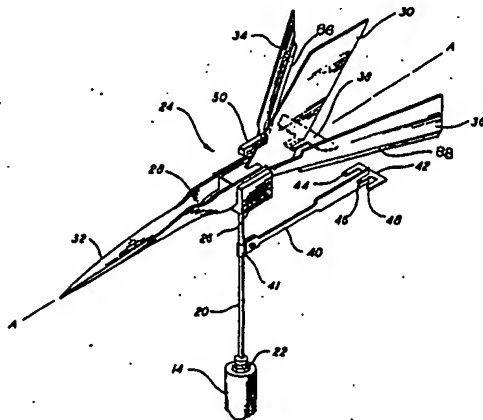
Assistant Examiner—James D. Sobole

Attorney, Agent, or Firm—Charles S. Mc Guire

[57] ABSTRACT

A device for mounting on a sailboat to provide a visual indication of the optimum bow-to-wind angle to achieve maximum distance per unit of time to windward. A pivotally mounted wind vane includes a pair of flexible struts extending outwardly at equal angles on each side of the vane centerline and are deflected from a normal, undisturbed position laterally in proportion to apparent wind velocity. A flexible elongated member is affixed at one end to the support upon which the vane is pivotally mounted and is likewise flexed in accordance with apparent wind direction and velocity. Steering the boat to bring the flexible member into predetermined positional relationship to one of the flexible struts provides the desired optimization, for upwind travel, of boat-to-wind angle. The device is also useful in downwind sailing by aligning one of the struts on the windward with either the transverse or longitudinal axis of the boat, depending on apparent wind velocity.

10 Claims, 8 Drawing Figures



[54] WINDVANE

[76] Inventor: Samuel Brubach, 11 Shadow Grove
Ld., Holbrook, N.Y. 11741

[21] Appl. No. 224,460

[22] Filed: Jan. 13, 1981

[51] Int. Cl.³ G01P 13/02

[52] U.S. Cl. 73/188; 114/263

[53] Field of Search 73/188, 189; 114/263 R;

114/264, 200, D10, 7, 263; 150/94.19, 94.10

[56] References Cited

U.S. PATENT DOCUMENTS

3,318,443 8/1964 Co. 114/263

3,783,344 2/1977 Tulin 150/94.1

3,394,715 11/1967 Conner 73/188

3,771,329 3/1984 Tulman 73/188

4,064,121 1/1978 Bringham 330/94.19

4,300,470 11/1981 Perrella 114/263

FOREIGN PATENT DOCUMENTS

201161 9/1979 United Kingdom 114/263

Primary Examiner—Charles Frankfort

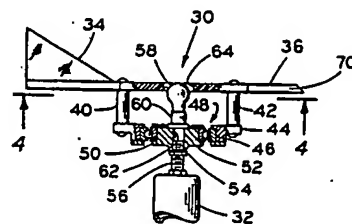
Assistant Examiner—Dennis E. Carr

Attorney, Agent, or Firm—Bauer & Amer

[57] ABSTRACT

A plastic or similar plastic windvane that has beveled peripheral edges or is otherwise provided with surface markings from which light rays impinging thereon exit from the plastic causing illumination of the edges or markings, whereby the windvane is effectively used at night or under conditions of diminished visibility to designate wind direction.

2 Claims, 5 Drawing Figures



[54] BIRD REPELLING MEANS

[76] Inventor: David A. Nuttie, Rm. 2, Youngsville,
N.C. 27396

[21] Appl. No. 792,989

[22] Filed: Oct. 23, 1985

[51] Int. Cl.³ A01M 29/04

[52] U.S. Cl. 446/212; 114/22 A; 43/1

[53] Field of Search 43/2, 1; 114/22 A, 23;

114/24, 140, 141; 446/176, 177; 213, 216;

40/440, 433

[56] References Cited

U.S. PATENT DOCUMENTS

3,331,611 1/1968 Doreggle 446/213 X

1,167,202 1/1936 Hoffman et al. 40/433

1,442,290 1/1923 Pulliam 40/433

3,788,762 4/1977 Wright 114/22 A

3,941,197 6/1980 Mattern 114/22 A

4,112,394 12/1978 Lewis et al. 114/22 A

FOREIGN PATENT DOCUMENTS

233826 1/1975 Fed. Rep. of Germany 43/1

197609 9/1978 United Kingdom 114/22 A

320444 6/1980 United Kingdom 43/1

Primary Examiner—Nicholas P. Goodid

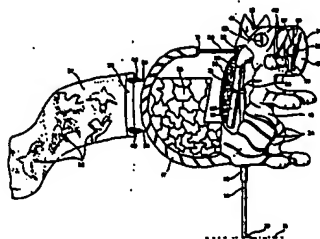
Assistant Examiner—Carmine Cade

Attorney, Agent, or Firm—MG & Co.

[57] ABSTRACT

This invention is a combination of visual and aural devices to create panic in selected bird species. This is accomplished in part through a body simulating a Tiger Cat which is weather-vane mounted. The body includes bright orange stripes and has predatory eyes. Streamers depicting postured birds are attached to the tiger's tail and an internal wind driven tone produces a variety of the notes. Additionally, reflectors are used on a propeller to simulate light reflection from a gas barrel. Further, random or scheduled explosions from an automatic screech horn and bird warning and distress calls are broadcast over loud speakers for the species of birds being repelled.

24 Claims, 4 Drawing Figures



[54] WEATHERVANE SUPPORT

[76] Inventor: Walter James Frontz, II, 2152 Lackey
Old State Rd., Delaware, Ohio 43015

[21] Filed: Nov. 13, 1996

[51] Int. Cl.³ 19-04

[52] U.S. Cl. D1059

[53] Field of Search D1059; 73/170.05;

73/170.06, 170.07

[56] References Cited

U.S. PATENT DOCUMENTS

D. 272,085 8/1984 Mauw D1059

Primary Examiner—Antonia Duval Davis

Attorney, Agent, or Firm—Stanley & Glick

[57] CLAIM

The ornamental design for a weathervane support, as shown

and described.

DESCRIPTION

FIG. 1 is a perspective view of the weathervane support of

the present invention;

FIG. 2 is a side view of the weathervane support of FIG. 1;

FIG. 3 is a top plan view of the weathervane support of

FIG. 1;

FIG. 4 is a bottom view of the weathervane support of

FIG. 1;

FIG. 5 is a front and side view of the weathervane support of

FIG. 1; and

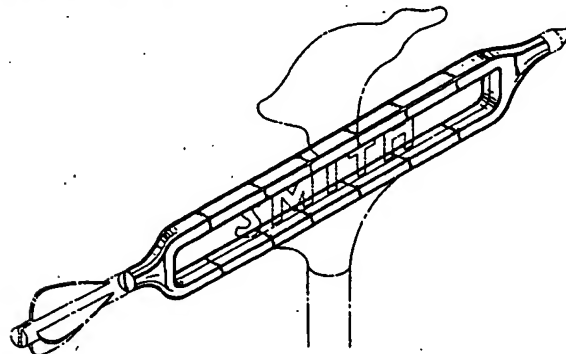
FIG. 6 is a back and side view of the weathervane support of

FIG. 1.

The broken line showing is for illustrative purposes only and

forms no part of the claimed design.

1 Claim, 2 Drawing Sheets



United States Patent [19] Check et al.

(11) 4,378,670
(45) Apr. 5, 1983

[54] HAND SCOOP FOR GRASS AND LEAVES
[76] Inventors: Matthew M. Check, 34 Bowman Dr.,
Greenwich, Conn. 06830; Ella L.
Goadby, 22 Barrow Dr. East
Greenwich, R.I. 02818

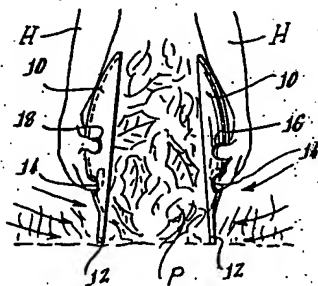
3,183,544 11/1979 Nims 56/400.01
2,544,113 7/1979 Spring 294/1 R
2,543,323 1/1981 Druber 294/23
2,444,433 1/1981 Beach 294/20.2
2,433,779 9/1981 Morris 294/20.2
2,360,339 11/1980 Fischer 294/48
3,100,419 10/1983 Erwing 294/23
3,800,421 5/1974 James 56/400.12

Primary Examiner—Paul J. Hirsch
Attorney, Agent, or Firm—Alfred E. Miller

ABSTRACT

A pair of concave scoops, that are operated by a person's hands which have teeth that function as rakes to, assemble leaves, grass clippings, and other debris into a pile that can be lifted for disposal into garbage bags, wheelbarrows, or the like. The scoops are lightweight, and easily grasped and maneuvered into position to lift up and dispose of any unwanted debris from lawns and other locations.

9 Claims, 7 Drawing Figures



[21] Appl. No.: 182,313
[22] Filed: Aug. 28, 1980
[31] Int. Cl.: A01D 7/00
[32] U.S. Cl.: 56/400.01; 56/400.12; 294/20.2; 294/23
[36] Field of Search: 294/49, 55, 50.5, 50.6, 294/20.2, 50.8, 52, 56/400.01; 400.12

U.S. PATENT DOCUMENTS

273,303 4/1883 Lindsay 294/20.2
364,313 6/1887 Smith 294/23
816,236 5/1904 Kline 294/20.2
1,773,371 9/1930 Rosen 294/20.2
2,023,680 1/1934 Mayeda et al. 294/20.2

United States Patent [19]

Costar

(11) Patent Number: 5,359,840
(45) Date of Patent: Nov. 1, 1994

[54] COMBINATION HANDRAKE, SCOOP, GRASPING TOOL AND METHOD OF USE

[76] Inventor: Donald G. Costar, P.O. Box 9905,
Reno, Nev. 89507-0905

[21] Appl. No.: 177,868

[22] Filed: Jan. 4, 1994

[31] Int. Cl.: A01D 7/02

[32] U.S. Cl.: 56/400.12; 172/378; 294/23

[36] Field of Search: 56/330, 400.01, 400.12, 56/400.16, 172/371, 378, 294/23

References Cited

U.S. PATENT DOCUMENTS
345,844 7/1886 Holmes 294/23 X
367,087 9/1896 Fitzgerald 294/11
968,740 5/1910 Cox 431/30
2,344,072 6/1941 Lindner 294/23
2,533,678 10/1950 Ross 294/20.2
2,926,181 10/1959 Ross 56/400.04
3,133,111 6/1964 Stone 172/371
3,684,484 9/1972 Cox 56/400.12

FOREIGN PATENT DOCUMENTS

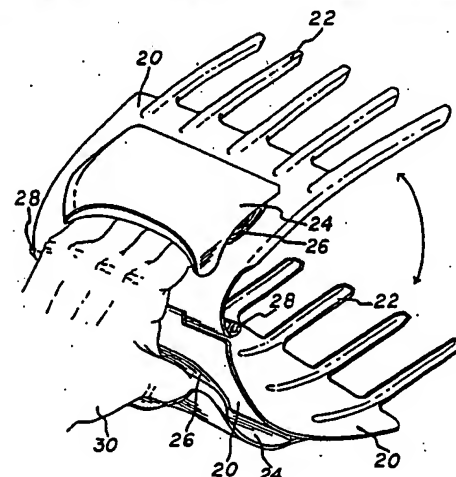
1,841,684 10/1974 Finland 294/1 R
4,018,035 6/1977 Spain 56/400.12
4,037,397 7/1977 Finland 56/400.12
4,148,370 6/1979 Brazil 294/1 R
4,378,570 6/1983 Check et al. 56/400.01
4,378,671 6/1983 Check et al. 56/400.12
4,747,633 5/1988 Spain 294/23 X
4,991,386 7/1991 Dicksen 56/400.12
5,031,370 10/1991 Russel 56/400.12
5,114,159 5/1992 Newcomer 294/20.2
5,168,191 12/1992 Bess 294/23

Primary Examiner—David J. Bagnell

ABSTRACT

A one hand operable grasping tool having extended and retracted, or raking members, that transform the tool into a small one hand operable rake when in a closed position.

2 Claims, 4 Drawing Sheets



United States Patent [19]

McKittrick

(11) Patent Number: 5,937,627
(45) Date of Patent: Aug. 17, 1999

[54] GARDENING IMPLEMENT HAVING ENHANCED LEVERAGE

[75] Inventor: Jamie McKittrick, 4901 Froumose Ave., Golden Valley, Minn. 55422

[73] Assignee: Jamie McKittrick, Golden Valley, Minn.

[21] Appl. No.: 08/693,345

[22] Filed: Aug. 6, 1996

Related U.S. Application Data

[43] Continuation-in-part of application No. 08/614,158, Mar. 6, 1996, Pat. No. 5,813,206.

[51] Int. Cl.: A01D 7/00

[52] U.S. Cl.: 56/400.01; 56/400.04; 172/378; 294/23

[58] Field of Search: 56/400.01, 400.04, 56/400.05, 400.17; 172/378; 294/23

References Cited

U.S. PATENT DOCUMENTS
309,437 12/1884 Calk 294/28 X
712,843 11/1902 Peck 294/28 X
2,180,544 1/1939 Hansen 56/400.01 X
2,710,571 6/1955 Pitzer
3,232,355 2/1964 Westwood
4,477,114 10/1984 Calk 294/28 X

4,444,740 2/1987 Lee

4,822,087 4/1989 DeCade

4,880,866 12/1989 Hanks

5,014,792 5/1991 Gledhill

5,171,941 1/1993 Tang et al.

FOREIGN PATENT DOCUMENTS

2185403 6/1987 United Kingdom 294/28

2348304 3/1992 United Kingdom 294/28

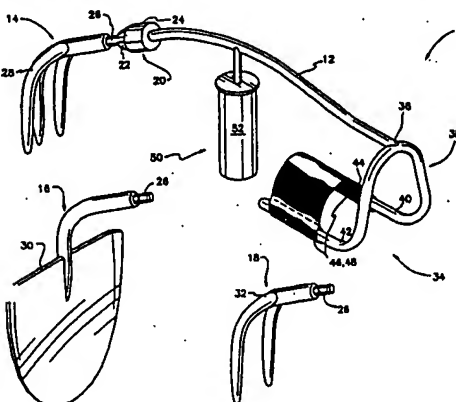
Primary Examiner—Heather Shackelford

Attorney, Agent, or Firm—Dorsey & Whitney LLP

ABSTRACT

A hand held garden tool configured to enhance downward force for digging and raking. The tool has a rod frame which extends from a working element attached to the tool at the front end of the tool to a brace located at the rear of the tool. The brace rests on the user's wrist or forearm, so that additional force is developed when the working element is urged downwardly into the ground. A handle depends from the frame at a point between the working element and the brace. Vertical orientation of the handle is more natural and comfortable than would be a horizontal orientation. The handle is provided with a molded grip for cooperating with a user's hand. The tool has a clench for accepting diverse working heads, and preferably is provided with a plurality of diverse working heads. Exemplary working heads include rakes, spades, and pry.

5 Claims, 3 Drawing Sheets



United States Patent [19]

Anthes et al.

(11) Patent Number: 5,609,012
(45) Date of Patent: Mar. 11, 1997

[54] RAKING APPARATUS WORN ON A HAND

[76] Inventors: Peter R. Anthes; Jeanne Anthes, both
of 8 Gen. Co., Westerly, R.I. 02891

4,866,322 9/1989 Clark 56/400.04
5,404,644 4/1995 Neudman et al. 172/378 X

Primary Examiner—Terry Lee Melton

ABSTRACT

A raking apparatus worn on a hand comprised of a plurality of L-shaped rake portions. The plurality of rake portions are coupled together by an arcuate support rod. A palm receiving portion is secured to end portions of the plurality of L-shaped rake portions. A finger receiving portion is secured to the plurality of L-shaped rake portions adjacent to the palm receiving portion.

[21] Appl. No.: 839,081

[22] Filed: Sep. 15, 1995

[31] Int. Cl.: A01D 7/06

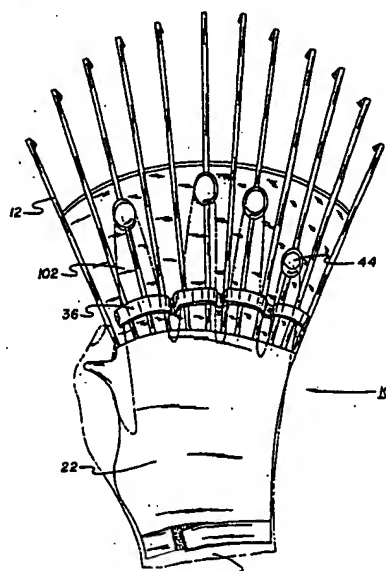
[32] U.S. Cl.: 56/400.01; 56/400.12; 172/378

[36] Field of Search: 56/400.01, 400.04, 56/400.19, 400.12, 400.21; 172/378; 294/23

References Cited

U.S. PATENT DOCUMENTS
4,378,670 4/1983 Check et al. 56/400.01

5 Claims, 3 Drawing Sheets



United States Patent

Rozenblad

(11) 4,351,525
(45) Sep. 28, 1982

- [54] MULTIPLE USE-EXERCISING DEVICES
[76] Inventor: William J. Rozenblad, 401 W. 56th St., New York, N.Y. 10019
[21] Appl. No.: 354,836
[22] Filed: Feb. 23, 1981
[31] Int. Cl. A63B 21/00
[32] U.S. Cl. 272/93
[33] Field of Search: 272/93, 126, 109, 244/243, 15/103.5, 104.54, 233, 7/167

- References Cited
U.S. PATENT DOCUMENTS
1,741,109 6/1930 Dietz
2,219,433 10/1941 Mitchell
2,434,077 4/1950 Van Dusen
3,113,333 12/1963 Acs et al.
3,180,804 6/1965 Hammer
3,373,701 5/1971 Agoston

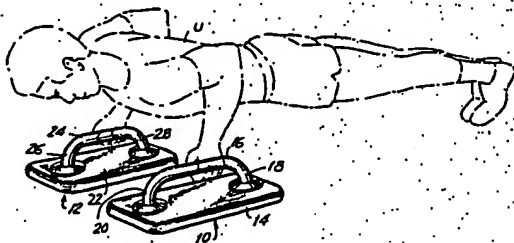
- 3,444,467 5/1972 McCarthy
3,444,703 6/1972 Ray
4,046,373 5/1977 Elm

Primary Examiner—Richard C. Pinkham
Assistant Examiner—William A. Brown

ABSTRACT

An exercise device having one or two wood plaques with relatively flat, inverted U-shaped members extending vertically upright thereon. The U-shaped members are tubular and include horizontal portions with end flanges extending downwardly into the plaques which serve as bases. Internal members in the ends include projections extending through the bases and engaged by locking members counterwound into the bases. The locking members are covered by non-slip mats. Collars encircle the aforementioned ends to aid in holding the U-shaped members upright.

3 Claims, 5 Drawing Figures



United States Patent

Olson

(11) Patent Number: 4,585,228
(45) Date of Patent: Apr. 29, 1986

WEIGHT ASSEMBLY

- [75] Inventor: Scott B. Olson, Bloomington, Minn.
[73] Assignee: North American Sports Training Corporation, Minneapolis, Minn.

[21] Appl. No.: 644,901

[22] Filed: Aug. 31, 1984

- [31] Int. Cl. A63B 21/12
[32] U.S. Cl. 272/119, 272/67
[33] Field of Search: 272/119, 67, 68, 143, 272/116, 122, 24, 124/17, 272/119 A, 34-B

U.S. PATENT DOCUMENTS

- 1,149,129 5/1964 Maricle
1,970,305 7/1976 Hawkins
4,029,113 5/1977 Sakurada
4,125,407 1/1979 Davis
4,330,120 5/1980 Nord
4,346,997 1/1981 Klesner
4,411,423 10/1981 Schreyer
4,531,011 6/1983 Schreyer

FOREIGN PATENT DOCUMENTS

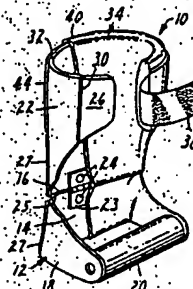
- 503776 2/1979 United Kingdom

Primary Examiner—Richard J. Aspley
Assistant Examiner—Robert W. Baber
Attorney, Agent, or Firm—William L. Hochbach

ABSTRACT

A weight assembly adapted to be worn around a hand, wrist and forearm comprising a heavy metal hand strap, the plate having a central portion adapted to generally cover and extend transversely across the back of the hand, and end portions projecting generally at right angles from opposite ends of its central portion a distance adapted to extend past the palm of the hand and a tubular grip extending between the end portions adapted to be encircled by the fingers and thumb of the hand. A heavy metal forearm plate extends for a predetermined distance from the wrist longitudinally along the forearm and is attached to the first plate by a hinge having a single pivot axis along the wrist. A flexible cover encloses the hand and forearm plates and the hinge, and includes a closure for releasably fastening the forearm plate to the forearm.

8 Claims, 4 Drawing Figures



United States Patent

Cleto

(11) Patent Number: 5,530,967
(45) Date of Patent: Jul. 2, 1996

BOCKEY TRAINING GLOVES WITH ATTACHABLE AND REMOVABLE WEIGHTS

- [76] Inventor: Robert Cleto, 190 Oak Ave., Island Heights, N.J. 08732

[21] Appl. No.: 385,444

[22] Filed: Sep. 13, 1994

- [31] Int. Cl. A61D 3/18; A61D 13/10
[32] U.S. Cl. 2/16; 2/160
[33] Field of Search: 2/16, 159, 160, 2/161.1, 162, 20; 273/57.2; 482/44, 105, 93

References Cited

- 4,024,979 7/1977 Weiss
4,229,211 12/1980 Williams
4,341,097 1/1981 Schwartz
4,330,120 5/1980 Nord
4,371,943 7/1980 Frost, Jr.
4,384,714 5/1980 Klesner
4,384,190 5/1980 Williams
4,677,693 7/1987 Angus
4,684,123 5/1987 Pabry
4,705,404 10/1987 Longmire

FOREIGN PATENT DOCUMENTS

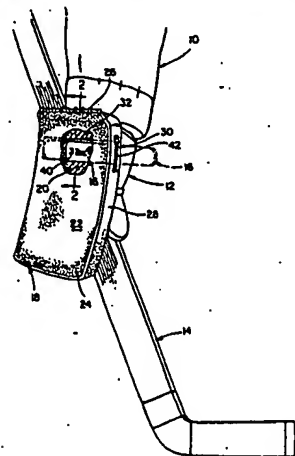
- 4,911,433 3/1990 Walker et al.
4,922,418 5/1990 Hoffman
4,967,418 11/1990 Marston

2051912 3/1993 Canada
Primary Examiner—Michael A. Moss
Attorney, Agent, or Firm—Jacobson, Price, Holman & Stern

ABSTRACT

A hockey player's gloves with attachable and removable weights in which the weights are insertable and removable from a pocket associated with the gloves. In certain embodiments, a portion of a blocking pad is positioned between the insertable weights and the surface of the pad adapted to engage or block a hockey puck that may be traveling at a relatively high rate of speed. In other embodiments, the weight is insertable and removable from a pocket formed in the cuff area of each glove. The gloves may be used both as a warm up aid for use just prior to a game or as a training aid during various practice periods. The pocket receiving the weights is provided with a closure and the weights are preferably metal and provided with a coating of resilient material, such as rubber or the like.

3 Claims, 2 Drawing Sheets



United States Patent

Puentes

(11) Patent Number: 5,358,463
(45) Date of Patent: Oct. 25, 1994

- [54] EXERCISE DEVICE
[76] Inventor: Jaime Puentes, 12 South Rd., Central Islip, N.Y. 11722
[21] Appl. No.: 953,599
[22] Filed: Sep. 28, 1993
[31] Int. Cl. A63B 24/00
[32] U.S. Cl. 482/343; 482/44;
[33] Field of Search: 482/147, 482/44-46, 482/49, 141, 146, 147

- References Cited
U.S. PATENT DOCUMENTS
3,113,333 12/1963 Acs et al.
3,170,321 5/1973 Sullivan
4,331,323 5/1980 Rozenblad

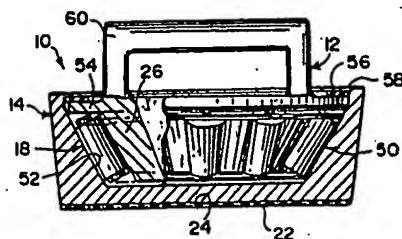
4,513,222 4/1986 Olson
4,764,771 6/1988 Thomas Jr.
5,072,144 12/1991 Stangle

Primary Examiner—Richard J. Aspley
Assistant Examiner—James M. Molto

ABSTRACT

An improved exercise device is provided which consists of a hand engaging member, a base for supporting the hand engaging member on an underlying surface and a mechanism for rotating the hand engaging member about a vertical axis relative to the base, so that a user can develop a forearm/arm and upper body, while doing push-ups, so as to better execute karate punches and other sport motions of a like nature.

7 Claims, 3 Drawing Sheets



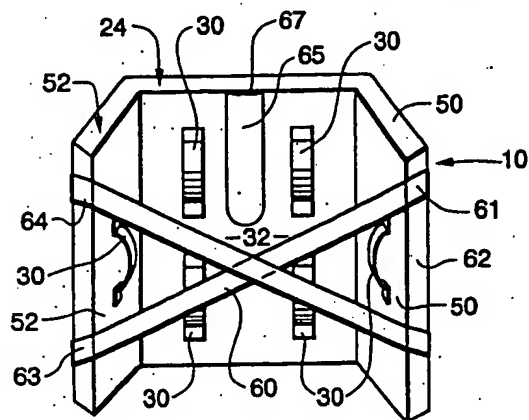
United States Patent (19) (11) Patent Number: 5,501,649
Qoeppel (45) Date of Patent: Mar. 26, 1996

- (54) MARTIAL ARTS TRAINING PAD AND BLOCKING SHIELD
- (76) Inventor: Timothy J. Qoeppel, 117 Railroad Ave., Unit A1, West Grove, Pa. 19380
- (21) Appl. No.: 329,415
- (22) Filed: Oct. 27, 1994
- (31) Int. Cl. A63B 69/24
- (32) U.S. Cl. 482/88; 434/247; 482/86
- (37) Field of Search: 434/247, 251; 482/84, 87, 86, 85; 273/25 A, 33 R, 37.3
- (56) References Cited
- U.S. PATENT DOCUMENTS
- | | | | | |
|-----------|---------|-------------|--|-----------|
| 1,044,387 | 11/1912 | Campbell | | 273/25 R |
| 1,231,223 | 4/1941 | Gilman | | 273/25 |
| 1,274,317 | 10/1930 | Gilman | | 273/25 |
| 1,063,547 | 11/1932 | Kopp | | 434/251 X |
| 1,729,313 | 9/1977 | Quinn | | 482/86 |
| 1,864,909 | 2/1975 | De Sade | | 482/88 |
| 4,078,408 | 10/1984 | Bruckner | | 272/76 |
| 4,346,966 | 10/1985 | Segura | | 272/76 |
| 4,571,477 | 12/1983 | Chen et al. | | 482/86 |
- OTHER PUBLICATIONS
- Advertisement for blocking/proactive equipment from Blackbelt magazine, Jan. 1979 and Sep. 1989.
- Primary Examiner—Jessica J. Harrison
Assistant Examiner—Michael O'Neill
Attorney, Agent, or Firm—Brockman, George & Kibbala

ABSTRACT

The invention relates to a combination training pad and blocking shield for use in martial arts training. The pad and blocking shield is portable and has frontal and side strike zones which allow an athlete training in martial arts to spontaneously practice frontal and lateral kicks and punches on the shield while such shield is held by a partner as well as old and high level attack techniques, without concern for the safety of the partner.

9 Claims, 2 Drawing Sheets



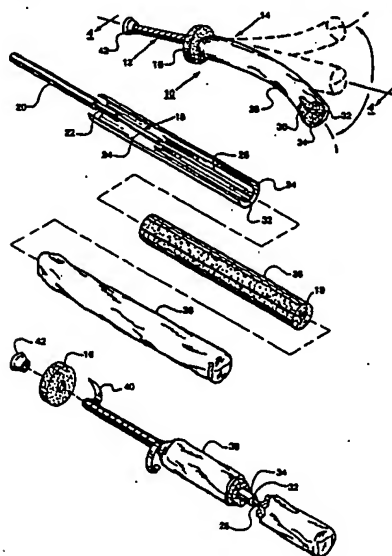
United States Patent (19) (11) Patent Number: 6,036,602
Abbott (45) Date of Patent: Mar. 14, 2000

- (54) FULL CONTACT MARTIAL ARTS SPARRING INSTRUMENT
- (76) Inventor: Dase G. Abbott, 4905 E. Beverly Ln., Phoenix, Ariz. 85032
- (21) Appl. No.: 09/274,540
- (22) Filed: Mar. 23, 1999
- (31) Int. Cl. F41A 33/00; A63H 33/30
- (32) U.S. Cl. 463/47.2; 463/47.7; 482/12
- (37) Field of Search: 463/47.2, 47A, 463/47.7; 482/12, 109
- (56) References Cited
- U.S. PATENT DOCUMENTS
- | | | | |
|-----------|--------|---------|--|
| 1,986,682 | 1/1933 | Schultz | |
| 4,957,057 | 9/1990 | Mascard | |
| 5,293,728 | 3/1994 | Tanaka | |
- 2,324,227 6/1994 Yeh-Ching
5,430,998 5/1997 Fumoto
- Primary Examiner—William M. Pierce
Attorney, Agent, or Firm—Frank J. McOm

ABSTRACT

A sparring instrument is disclosed which allows for soft, pain free, full contact training. The sparring instrument comprises a handle and a striking portion having a bushing armature mounted thereto. The bushing armature comprises a tip and telescopically received within a plurality of telescopically mounted cylinders. The bushing armature is covered by a sheath extending beyond the tip rod. The sheath is covered by a soft, flexible material to its end. The sheath is made of a soft, resilient material whereby the sheath extends from the end of the soft, flexible material when the instrument is bent.

18 Claims, 2 Drawing Sheets



United States Patent (19) (11) Patent Number: Des. 420,413
Gonzalez (45) Date of Patent: Feb. 8, 2000

- (54) MARTIAL ARTS TRAINING DEVICE
- (76) Inventor: Richard J. Gonzalez, HC 30, Box 833, 4250 Coyote Gulch, Prescott, Ariz. 86303
- (21) Appl. No.: 29/101,233
- (22) Filed: Mar. 1, 1999
- (31) LOC (7) Cl. 21-42
- (32) U.S. Cl. D21/734
- (37) Field of Search: D21/662, 787, D21/708; 482/83, 84, 85, 86, 87, 88, 89, 90; 473/444
- (56) References Cited
- U.S. PATENT DOCUMENTS
- | | | | | |
|------------|---------|------------|--|---------|
| D. 263,808 | 1/1982 | Kye | | D21/692 |
| 1,528,217 | 10/1930 | Gilman | | 482/83 |
| 4,084,811 | 4/1978 | Kye | | 482/83 |
| 4,078,408 | 10/1984 | Bruckner | | 482/83 |
| 4,775,148 | 10/1988 | McLaughlin | | 482/83 |
- Primary Examiner—Philip S. Hyder
Attorney, Agent, or Firm—Richard R. Mybeck

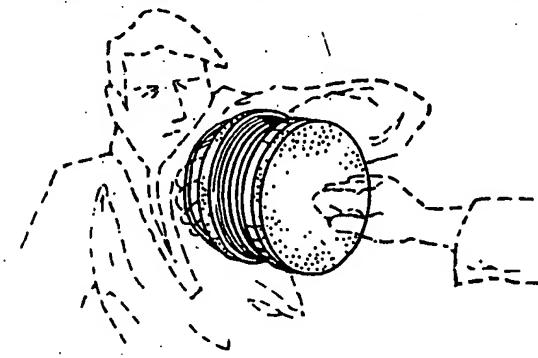
CLAIMS

The ornamental design for a martial arts training device, as shown and described.

DESCRIPTION

FIG. 1 is an isometric view of a martial arts training device showing one new design.
FIG. 2 is a side elevation thereof.
FIG. 3 is a top view thereof.
FIG. 4 is a side elevation thereof, both sides being generally the same except that one is the mirror image of the other.
FIG. 5 is a bottom view thereof; and,
FIG. 6 is a front elevation thereof.
The broken line portions of the FIG. 1 drawing are for illustrative purposes only and form no part of the claimed design.

1 Claim, 1 Drawing Sheet

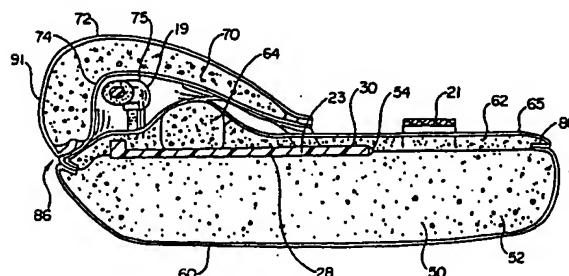


(12) United States Patent (10) Patent No.: US 6,325,747 B1
Norblom (45) Date of Patent: Dec. 4, 2001

- (54) MARTIAL ARTS TRAINING DEVICE
- (76) Inventor: Terry Lee Norblom, St. Louis Park, MN (US)
- (73) Assignee: Center Ring Martial Arts, Inc., Chanhassen, MN (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- This patent is subject to a terminal disclaimer.
- (58) Field of Search: 482/83, 84, 85, 86, 87, 2/1A, 161 R, 2, 69.2; 602/14, 20, 18, 21, 40
- (56) References Cited
- U.S. PATENT DOCUMENTS
- | | | | | |
|-----------|--------|-------------|--|--------|
| 4,942,624 | 3/1990 | Chen | | 274 |
| 4,994,579 | 3/1991 | Chen et al. | | 602/21 |
| 5,146,624 | 9/1992 | Bruckner | | 274 |
| 5,330,987 | 7/1994 | Chen | | 270 |
- * cited by examiner
- Primary Examiner—James Donnelly
(74) Attorney, Agent, or Firm—Marschall & Gould P.C.

- (21) Appl. No.: 09/414,204
- (22) Filed: Oct. 8, 1999
- Related U.S. Application Data
- (53) Continuation of application No. 09/044,524, filed on Mar. 2, 1998, now Pat. No. 5,944,602.
- (31) Int. Cl. A63B 21/02; A41D 13/08
- (32) U.S. Cl. 482/83; 482/86; 482/124
- ABSTRACT**
- A martial arts training device is provided by the present invention. The martial arts training device includes an integrally constructed target pad and striking glove. The target pad is provided for protecting a wearer's forearm when an opponent strikes the pad. The striking glove is provided for protecting the wearer's hand when the wearer strikes another combatant or another target pad.

10 Claims, 1 Drawing Sheet



United States Patent

Robinson

(11) Patent Number: 5,678,873
(43) Date of Patent: Oct. 21, 1997

(54) SNOWMOBILE'S AVALANCHE SHOVEL
(76) Inventor: Lyle Robinson, 3354 S. 3200 W.,
Kearns, Utah 84118

5,678,873 4/19/97 Macos 749/3
5,678,873 7/19/97 Macos 749/3

Primary Examiner—Dana Krueger
Attorney Agent, or Firm—Patent & Trademark Services,
Inc.; Joseph R. McCreary; Thomas Zack

ABSTRACT

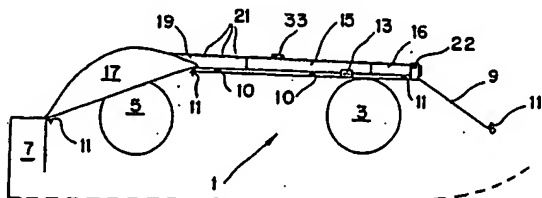
A two piece shovel mounted on a vehicle such as snowmobile. A mounting cover extends over part of the vehicle's transmission and serves to support the shovel head and its attached upper handle section and the lower separated handle section. Cover prongs may engage holes in the handle sections along with several fasteners to provide this support. The shovel's head also overlaps and protects part of the vehicle's transmission. A series of holes in the upper handle section serve as receptors for a spring biased pin located on the lower handle section. By selectively engaging these holes with the pin, the total assembled handle length may be adjusted. Additional features include a lower handle component for emergency use and a latched emergency procedure on the shovel head's back.

8 Claims, 1 Drawing Sheet

(21) Appl. No. 786,444
(22) Filed: Sep. 3, 1996
(51) Int. Cl. 7: B61D 29/02
(52) U.S. Cl. 294/51; 294/57; 224/408
(53) Field of Search: 294/51, 54.5,
294/57, 59, 224/403, 403, 403

References Cited

U.S. PATENT DOCUMENTS
1,471,204 12/1923 Conroy et al. 294/51
3,224,149 11/1963 McMillan 294/51
3,980,217 11/1976 Yuchan 294/51
3,984,374 10/1976 Ives 294/51
4,009,435 10/1977 Liu 294/403
4,700,020 10/1987 Belanger 294/51
4,993,748 7/1991 Ives 294/51
5,044,432 9/1991 White 294/51
5,043,622 11/1991 Campbell 294/51



United States Patent

Watts

(10) Patent No.: US 6,446,368 B1
(43) Date of Patent: Sep. 10, 2002

(54) INNOVATIVE INCLINED PLANE EARTH
ENGAGING TOOL
(75) Inventor: Chad T. Watts, Dallas, TX (US)
(73) Assignee: Chad Watts
(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

4,326,348 A 4/1982 Eardich
4,428,132 A 1/1984 Hahn
4,507,721 A 3/1986 Rogers et al.
4,744,667 A 1/1988 Morda
4,948,754 A 6/1988 Sub-wapach
4,733,259 A 6/1988 Maynes 172/777
5,034,343 A 5/1991 Robinson
5,054,343 A 10/1991 Spangner et al.
5,144,762 A 9/1992 Robinson
5,224,282 A 7/1993 Welch
5,112,802 A 5/1993 Cornwell
5,444,748 A 9/1997 Eardich et al.
5,743,023 A 4/1998 Orgel 37/460
5,783,037 A 7/1998 Lowder et al. 37/460

* cited by examiner

Primary Examiner—Victor Buxton

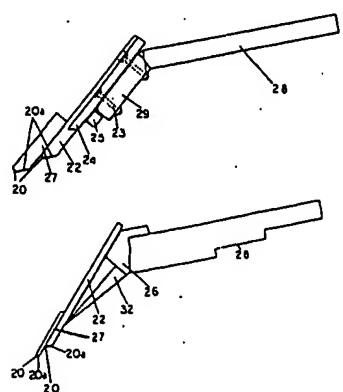
ABSTRACT

When added, the inclined plane (22) becomes the earth engaging tool. It is a robust, one piece, durable metal slope. Its leading edge is optionally pointed, serrated, and thickened for use in consolidated and abrasive earth. Its leading edge fractures and cleaves as it up lifts excavated earth above and beyond its attachment to the implement (28). Working more than one inclined plane (22) in unison and arranged to bridge cleaves, results in little to no abrasion to the implement (28), superior excavation performance, and excellent safety.

6 Claims, 8 Drawing Sheets

References Cited

U.S. PATENT DOCUMENTS
3,124,230 A 7/1958 Hume et al. 37/460
3,230,804 A 7/1961 Callahan 37/453
3,251,487 A 6/1964 Hume et al. 37/453
3,433,021 A 12/1967 Mord 37/453
3,544,457 A 3/1971 Lowder et al. 37/453
3,550,293 A 12/1970 Hume 37/453
3,644,391 A 3/1972 Eley et al. 37/453
3,828,027 A 6/1975 Thorne 37/460



United States Patent

St. Jeor

(11) Patent Number: 6,113,168
(43) Date of Patent: Sep. 5, 2000

(54) COMPACT SNOW DIGGING IMPLEMENT
(75) Inventor: Chris St. Jeor, Salt Lake City, Utah
(73) Assignee: Interventions de Jeor, LLC, Salt Lake
City, Utah

4,749,011 6/1988 Rylander
4,804,982 8/1988 Ceder 294/1.1
4,854,624 8/1988 Rylander
5,034,343 10/1981 Jenkins et al.
5,173,313 11/1986 Wagner
5,673,794 10/1997 Hawley
5,870,029 3/1999 Baker et al.
5,851,079 9/1999 Winkley 294/55

(21) Appl. No.: 99/043,848

(22) Filed: Aug. 24, 1999

Related U.S. Application Data

(63) Continuation-in-part of application No. 08/160,449, Sep. 25,
1994, abandoned.
(51) Int. Cl. 7: E01H 5/02
(52) U.S. Cl. 294/54.5; 37/265
(53) Field of Search: 294/1.1, 1.3, 54.5,
294/53; 248/99; 37/265, 278, 284, 285;
141/10, 106, 109, 114, 314

References Cited

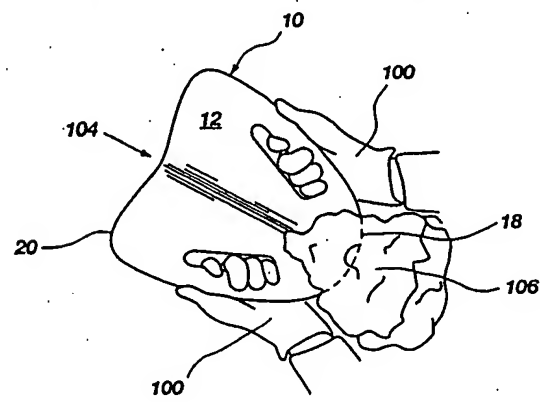
U.S. PATENT DOCUMENTS
112,727 3/1871 Low 141/108
3,411,577 10/1992 Ziegler
3,934,087 2/1976 Alexander
4,243,411 1/1981 McMath
4,514,799 5/1983 O'Donnell
4,607,672 8/1986 Horner

Primary Examiner—Dana J. Krueger
Attorney Agent, or Firm—Thorpe, North & Western, LLP

ABSTRACT

A lightweight, compact implement for digging snow, comprising a substantially flat sheet of flexible, resilient material having a front face, a back face, a top edge, a bottom edge, a right edge, and a left edge, and handles situated near the right edge and the left edge thereof, whereby a user grasping the sheet by the handles may selectively deform the sheet into a shovel head shape and use it to cut and transport volumes of snow using the top edge or bottom edge. The handles may comprise oblong head holes formed near the right and left edges of the sheet, or may comprise handles or straps affixed near the edges. The top edge is short and rounded so as to facilitate digging of hard or packed snow, while the bottom edge is longer and less rounded to allow digging of comparatively larger volumes of light or soft snow.

20 Claims, 3 Drawing Sheets



United States Patent

Michaud

(10) Patent No.: US 6,464,272 B1
(43) Date of Patent: Oct. 15, 2002

(54) ONE HANDED SHOVEL FOR
HANDICAPPED
(75) Inventor: Raymond Thomas Michaud, 21
Blanchard Rd., Springvale, ME (US)
04083

5,529,337 A 6/1996 Hedman 15/143
5,710,087 A 7/1998 Backick et al. 16/422
5,832,543 A 11/1998 Simpson 16/113
5,971,627 A 9/1999 McElmish 172/778
6,067,788 A 5/2000 Pennell 16/422

(73) Assignee: Raymond Thomas Michaud,
Springvale, ME (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

FOREIGN PATENT DOCUMENTS

GB 2248204 A 3/1992 294/53
2246134 A 6/1996 294/53

* cited by examiner

Primary Examiner—Dana J. Krueger

ABSTRACT

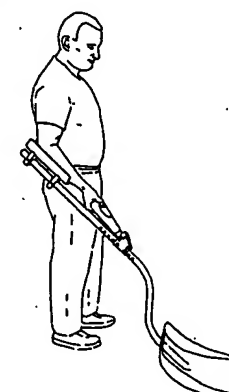
(21) Appl. No.: 99/981,047
(22) Filed: Oct. 18, 2001
(51) Int. Cl. 7: E25G 1/04; A01B 1/22
(52) U.S. Cl. 294/58; 294/25; 164/30
(53) Field of Search: 294/25, 57-59;
164/22, 426, 430

This design is to be used by handicapped persons for the removal of snow. The invention is made to be used with one arm, and is adjustable to fit a short or tall person with only one arm or leg, left or right. It consists of a grip handle which is secured to two plates by bolts which are attached in turn to the main shaft by bolts, and is made adjustable by bolts drilled into the main shaft. It also has a cradle at the upper end of the main shaft in which the forearm rests to give it stability and leverage to lift the loaded shovel for throwing snow. This cradle is attached to the main shaft by clamps which are also adjustable by loosening the bolts and moving it up and down on the shaft, which is also used to allow for use of different sized persons in unison with the adjustment of the grip handle.

1 Claim, 3 Drawing Sheets

References Cited

U.S. PATENT DOCUMENTS
309,437 A 12/1884 Calk 294/58
712,843 A 11/1902 Ford 172/144
2,462,559 A 9/1949 Maguire 15/133
4,944,541 A 7/1990 Wolchukin 164/26
5,451,083 A 9/1995 Wagner 164/22
5,471,698 A 12/1995 French et al. 164/41



(54) Eviscerating and Skinning Knife

(76) Inventor: Carl J. Addis, 115 Valley Dr., Casper, Wyo. 82601

(22) Filed: June 19, 1972

(21) Appl. No.: 264,260

Related U.S. Application Data

(63) Continuation-in-part of Ser. No. 119,911, July 4, 1971, abandoned.

(52) U.S. Cl. 30/287, 30/155

(51) Int. Cl. B26D 29/02

(54) Field of Search 30/286, 287, 294, 295,

30/299, 317, 155; 7/14.1

(56) References Cited

UNITED STATES PATENTS

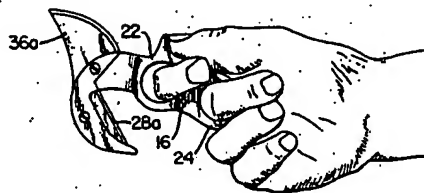
477,006	3/1972	Walker	30/293
818,332	12/1958	Eckley	30/287
1,424,433	1/1922	Angsted	30/287
2,904,021	9/1959	Crombino	30/293
3,241,236	3/1966	Capps	30/287
D121,422	8/1941	Dorcas	30/317 X

Primary Examiner—A. Lawrence Smith
Assistant Examiner—J. C. Peters
Attorney, Agent, or Firm—Sheridan, Ross & Fields

ABSTRACT

A knife for use in eviscerating animals and of particular utility to hunters of game animals which are usually eviscerated at the scene of the kill. It is characterized by a hook-shaped member having a cutting edge at the inner portion of the thigh thereof and having roller entrails depressors at the free end which roll along the inner or viscous side of the hide. It is of the draw-cut type, pulled by a ring or rings attached to a shank of the member which, in an optional form, may be a pivotal connection which permits folding of the parts into compact relationship. In an optional form of the invention the rollers may be replaced with a ball-shaped depressor which is of particular utility in skinning or eviscerating the hide, rather than eviscerating entrails. In another optional form a second blade, is provided for cutting between the skin and carcass.

3 Claims, 15 Drawing Figures



United States Patent (19)

Allen

(11) Patent Number: Des. 348,380

(45) Date of Patent: Jul. 5, 1994

(54) BLUNT NOSE KNIFE

(76) Inventor: Charles Allen, 602 E. 4th St., Austin, Tex. 78751

Term: 14 Years

(21) Appl. No.: 8,763

(22) Filed: May 23, 1993

(52) U.S. Cl. D7/649

(51) Int. Cl. D7/649, 642, 645, 650,

D7/652, 664; 30/147-149, 344, 346.33, 346.36

(56) References Cited

U.S. PATENT DOCUMENTS

D. 175,433	6/1938	Argy	D7/649
D. 367,822	1/1982	Russell	D7/649

Primary Examiner—Alan T. Douglas
Assistant Examiner—Caron D. Veyna
Attorney, Agent, or Firm—Gumbrell, Wilson & Hamilton

(71) CLAIM

The ornamental design for a blunt nose knife, as shown.

DESCRIPTION

FIG. 1 is a right perspective view of the blunt nose knife of the present invention;

FIG. 2 is a left perspective view of the blunt nose knife of the present invention;

FIG. 3 is a top view of the blunt nose knife of the present invention;

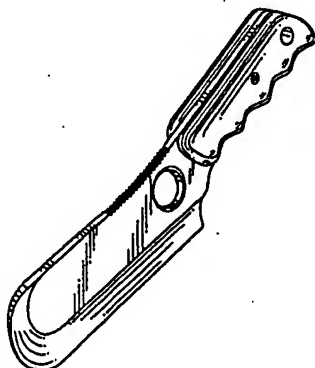
FIG. 4 is an elevational right side view of the blunt nose knife of the present invention;

FIG. 5 is a front view of the blunt nose knife of the present invention;

FIG. 6 is a rear view of the blunt nose knife of the present invention;

FIG. 7 is an elevational left side view of the blunt nose knife of the present invention; and,

FIG. 8 is a bottom view of the blunt nose knife of the present invention.



United States Patent (19)

Schrock et al.

(11) 4,087,911

(45) May 9, 1978

(54) FINGER HOLE KNIFE

Inventors: Maurice D. Schrock, c/o George Specter, 3415 Woodworth Bldg., 213 Broadway; George Specter, 3613 Woodworth Bldg., 213 Broadway, both of New York, N.Y. 10007

(21) Appl. No.: 632,830

(22) Filed: Nov. 20, 1975

(51) Int. Cl. B26D 29/00

(52) U.S. Cl. 30/286; 30/155;

30/298; 30/240

(54) Field of Search 30/153, 291, 294, 340,

30/285, 288, 286

References Cited

U.S. PATENT DOCUMENTS

449,031	3/1961	Burns	30/240 X
1,819,718	10/1934	Addis	30/287

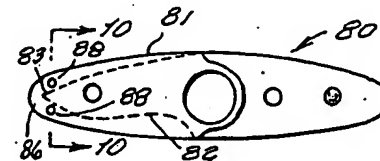
Primary Examiner—A. Lawrence Smith

Assistant Examiner—J. T. Zetser

ABSTRACT

An improved design of knife in which there is a knife blade and a handle for being held in a user's hand, the handle having a hole extending therethrough so that a finger of the user can be inserted therein so as to provide a more firm grip and prevent slipping of the knife in the hand; the knife design being readily adaptable for any knife such as either a pocket knife, boot knife, hunting knife or the like.

2 Claims, 10 Drawing Figures



(12) United States Patent

De Luccia

(10) Patent No.: US 6,378,745 B1

(45) Date of Patent: Apr. 30, 2002

(54) KNIFE HOLSTER FOR A BAND

(76) Inventor: Donalio B. De Luccia, 1842 Colden Ave., Bronx, NY (US) 10462

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/643,123

(22) Filed: Sep. 15, 2000

(51) Int. Cl. A45C 11/00

(52) U.S. Cl. 224/218; 307/6; 224/232

(54) Field of Search 224/218, 219,

224/222, 232; 307/60

(56) References Cited

U.S. PATENT DOCUMENTS

3,693,370	A	9/1972	Posner	224/218
4,089,594	A	1/1978	Reich	
D251,568	S	4/1979	Johnson	
D277,100	S	11/1980	Shaw	

3,002,213 A

3,421,498 A

3,442,555 A

3,444,923 A

3,593,073 A

3,791,702 A

3,822,408 A

3,878,500 A

3,928,089 A

3,967,791 A

3,971,240 A

4,146,319 A

3/1991

6/1992

8/1992

8/1995

1/1997

8/1998

10/1998

3/1999

8/1999

10/1999

10/1999

11/2000

Norris et al.

Jude

LeFevre

Flanagan

Kassner et al.

Kassner

Eckstein

Abreu-Morales

Hend

Duckles

Tard

30/160

224/218

224/219

224/218

224/222

224/222

224/218

224/219

224/222

224/218

224/219

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

224/219

224/218

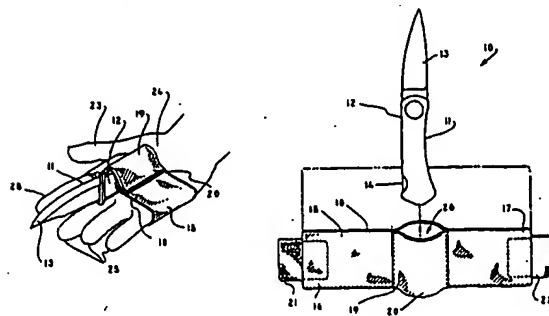
224/219

224/218

224/219

224/218

224/219



[54] DEPLOYABLE WING BACK PACK

[73] Inventor: Karel W. Mays, Miami, Fla.
 [72] Assignee: Lawrence Puka Associates, Inc.,
 New York, N.Y.; a part interest

[22] Filed: Apr. 30, 1975

[21] Appl. No.: 573,134

[32] U.S. Cl. 244/44; 244/138 R;
 244/143
 [31] Int. Cl. B64C 31/04
 [38] Field of Search 244/143, 147, 64, 16,
 244/138 R, 142, 151 R

[56] References Cited

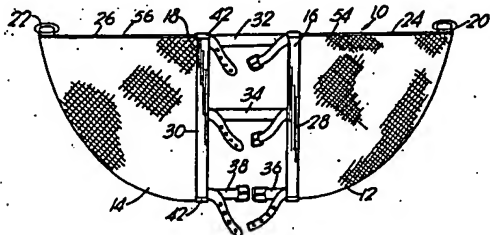
UNITED STATES PATENTS
 2,047,422 1/1937 Soth et al. 244/138 R X
 2,111,324 1/1939 Griffin 244/138 R X
 FOREIGN PATENTS OR APPLICATIONS
 825,884 1/1935 France 244/143

Primary Examiner—Trygve M. Ellis
 Assistant Examiner—Barry L. Kelmacher
 Attorney, Agent, or Firm—Jack D. Siobon

[57] ABSTRACT

A pair of sector-shaped wings stored in a pair of spaced apart elongated housings strapped vertically to the back of the user and adapted to be deployed from the housings utilizing rotatably mounted handles secured to the wings. Each housing has a longitudinal opening through which a wing is packed into a housing and deployed therefrom. Each wing comprises a pliable sheet of material which is secured to its respective housing along one side margin and secured to a right strip at another side margin. The strips are pivotally mounted and carry the handles which allow the wings to be manipulated by the arms of the user for accomplishing sky diving maneuvers.

8 Claims, 6 Drawing Figures



United States Patent (19)

Yamanaka

(11) Patent Number: 6,146,292

(45) Date of Patent: Nov. 14, 2000

[54] THROWING GOOD FOR USE IN SKY DIVING

[73] Inventor: Atsushi Yamanaka, 4-31-13,
 Midori-cho, Yokohama-shi,
 Saitama-Ken, Japan

[21] Appl. No.: 09/260,012

[22] Filed: Mar. 2, 1999

[31] Int. Cl. A63B 45/00

[32] U.S. Cl. 473/349; 473/594; 473/581

[38] Field of Search 473/573, 594,
 473/569, 578, 587; 273/360, 361, 363

[56] References Cited

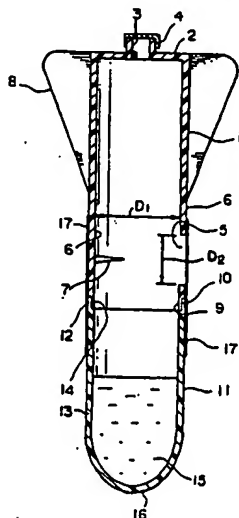
U.S. PATENT DOCUMENTS
 5,415,520 12/1994 Woodward 273/360
 4,135,539 1/1979 Bessley 273/363
 4,514,023 5/1994 Weaver 473/594
 5,534,454 7/1996 Liu et al. 473/594
 5,804,842 11/1998 McLeane 473/581

Primary Examiner—Steven Wong
 Attorney, Agent, or Firm—Obdon, Spivak, McCalland,
 Maier & Neustadt, P.C.

[57] ABSTRACT

A throwing good for use in sky diving, including a thin-gage, synthetic resin-made back body, a roughly circular opening window, a needle, a front body, and ballast water. The back body has a bottom and a cylindrical shape. The bottom has a small hole which can be opened and closed as will by means of a plug. The opening window is provided on the wall close to the front opening of the back body. The needle is directed toward the opening window protruded from the inner wall confronting the opening window. The front body has the same diameter as that of the back body of which back opening has a lip shaped into a hemisphere. The back opening of the front body is joined to the front opening of the back body and the joining portion is integrally by covering it with a rubber band of broad width capable of covering even the opening window. The ballast water fills the front body.

1 Claim, 3 Drawing Sheets



[54] JUMPING GARMENT FOR A PARACHUTIST

[73] Inventor: Marcel Pravaz, Cligny, France
 [72] Assignee: Etudes et Fabrications
 Aeronautiques, Paris, France

[22] Filed: Dec. 11, 1974

[21] Appl. No.: 531,668

[30] Foreign Applications Priority Date
 Dec. 29, 1973 France 73-43483

[32] U.S. Cl. 279
 [31] Int. Cl. A61D 13/02
 [38] Field of Search 279, 79, 80,
 2/1, 2, 2.1, 2.2; 244/143, 146, 143 R

[56] References Cited

UNITED STATES PATENTS
 1,003,349 10/1911 Dubois 279 R X
 1,232,187 1/1918 Shaw 279 D C

1,792,483 12/1930 Shaw 279
 3,043,343 7/1963 Loh et al. 279 X
 3,113,323 12/1963 Charvillat et al. 279
 3,294,624 1/1967 Loh et al. 279 D C
 3,742,511 7/1973 Garcia 279

FOREIGN PATENTS OR APPLICATIONS

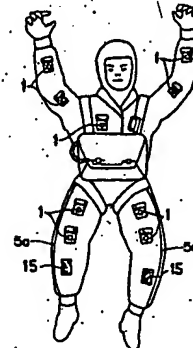
1,153,983 12/1937 France 279 D C
 723,942 5/1935 Italy

Primary Examiner—Alfred R. Quest

[57] ABSTRACT

Jumping garment for a parachutist in which means are incorporated for increasing the drag during the free fall. The drag-increasing means comprise openings formed in the wall of the garment in at least one of the sides of the body. The openings are adapted to allow direct entry of air into the space defined by the garment around the body of the parachutist so as to fully inflate the garment.

13 Claims, 6 Drawing Figures



(12) United States Patent

Mason

(10) Patent No.: US 6,368,112 B1

(45) Date of Patent: Apr. 9, 2002

[54] SKY DIVING TRAINING DEVICE

[73] Inventor: Jeffrey S. Mason, 13083 Heather Rd.,
 DeSoto, MO (US) 63020

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

[21] Appl. No.: 09/504,233

[22] Filed: Jan. 28, 2000

[31] Int. Cl. A63B 49/13

[32] U.S. Cl. 434/253; 434/247; 434/258;

472/59; 482/11; 482/147

[38] Field of Search 434/247, 258,
 434/380, 392, 433, 233, 254; 472/59, 135;
 463/36; 273/440, 454; 482/146, 147, 31

[56] References Cited

U.S. PATENT DOCUMENTS
 563,578 A * 7/1894 Emerson
 1,176,343 A * 2/1936 Blumson
 1,329,660 A * 2/1920 Kaye
 3,578,361 A * 5/1971 Young
 4,290,025 A 9/1981 Minkush
 4,336,515 A 6/1983 Gilliam
 4,505,477 A 3/1983 Williams
 4,749,180 A * 6/1988 Brown
 4,739,558 A 7/1988 Woods
 4,787,630 A 11/1988 Watson et al.

4,875,672 A * 10/1989 Armstrong
 4,933,833 A 9/1990 Lense
 4,933,838 A * 9/1990 Zeff
 4,946,344 A * 10/1990 Eggenberger
 5,240,417 A * 9/1993 Sullivan et al.
 5,242,336 A * 9/1993 Onasch
 5,328,427 A 7/1994 Bessinger
 5,545,115 A 9/1996 Corcoran
 5,630,776 A 5/1997 Goodwater
 5,765,277 A 8/1998 Brumbyer
 5,893,340 A * 4/1999 Kohn

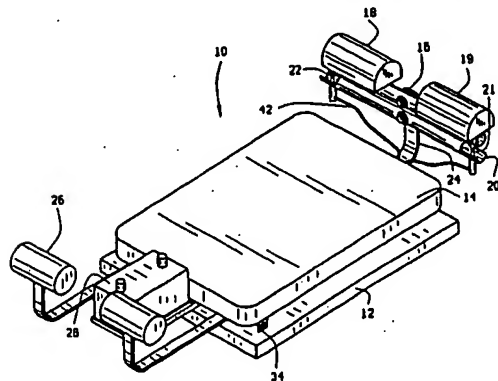
* cited by examiner

Primary Examiner—Jacob K. Ackon, Jr.
 Assistant Examiner—Bern B. Miller
 (74) Attorney, Agent, or Firm—Polster, Lieber, Woodruff &
 Luchessa

[57] ABSTRACT

A sky diving training device for training a student to assume the correct position for free fall. The device has a platform mounted on a pivot. The student lies face down on the platform with his shoulders on a bearing bar. When the student diver allows one shoulder to drop, the device begins rotating in a predetermined direction. When the student corrects his shoulder position, the device stops rotating, however if the student over corrects the shoulder, the device begins rotating in the opposite direction. The rotation simulates what happens in a free fall if the diver allows one shoulder to drop even slightly.

9 Claims, 4 Drawing Sheets



United States Patent

111 3,581,740

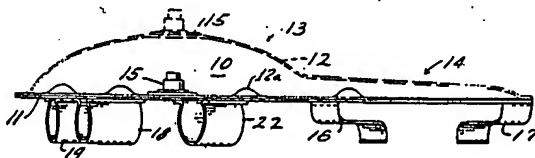
(72) Inventor: Robert D. Shorbover
Findlay, Ohio
(21) Appl. No.: 554,530
(22) Filed: Sept. 3, 1968
(43) Patent: June 1, 1971
(73) Assignee: R.L. K&S Co., Inc.
Findlay, Ohio

(54) References Cited
UNITED STATES PATENTS
2,880,721 4/1959 Corcoran 128/240UX
FOREIGN PATENTS
713,700 6/1966 Canada 128/87
Primary Examiner—L. W. Trapp
Attorney—Owen & Owen

(54) INFLATABLE DEVICE FOR ARTHRITIC THERAPY

13 Claims, 6 Drawing Figs.
(52) U.S. Cl.: 132/77, 128/87A
(51) Int. Cl.: A61F 5/10
(50) Field of Search: 128/26, 87, 132, 133, 77; 84/467, 468; 272/67

ABSTRACT: An inflatable splint for extending the fingers and wrist of the hand of the wearer. The splint has an inflatable chamber extending over the hand and wrist area of the wearer, with one surface which assumes a planar configuration when the splint is inflated. The one surface has finger loops adapted to receive the fingers of the wearer and positioned such that, upon inflation, the fingers will be moved to a normally extended, spaced-apart position. Wrist straps on the wrist area are provided to encircle the wearer's wrist so that, upon inflation, the wrist joint of the wearer will be moved to a straight position along with the extended fingers.



United States Patent

111 Patent Number: 4,907,574

Hollerbach

(43) Date of Patent: Mar. 13, 1990

(54) PROM EXERCISE DEVICE FOR OPPOSING CONTRACTURE

(76) Inventor: Thomas R. Hollerbach, 2716 Stevens Ave., South, Minneapolis, Minn. 55408

(21) Appl. No.: 229,335
(22) Filed: Aug. 4, 1988

(51) Int. Cl.: A61H 7/00
(52) U.S. Cl.: 128/66; 128/44; 128/DIG. 20

(53) Field of Search: 128/44, 65, DIG. 20, 128/24 R, DIG. 10, 160, 24, 157, 351, 165, 44

References Cited

U.S. PATENT DOCUMENTS
1,180,721 4/1939 Corcoran 128/79
3,413,223 3/1966 Jacoby 128/DIG. 20
3,416,315 12/1968 Summich et al. 128/163
3,457,212 3/1969 Clark et al. 128/26
3,497,588 2/1970 De Mure 128/33
3,547,112 10/1970 Courtney 128/77
3,541,740 6/1971 Shorbover 128/77
3,754,120 5/1973 Furusho 128/DIG. 20
3,577,215 2/1974 Bartholme 128/DIG. 20

3,980,440 11/1976 Gaylord 128/165
4,133,030 5/1979 Bishop 128/44
4,574,399 6/1981 Mumment 128/26
4,500,799 11/1981 Caplan 128/DIG. 20
4,540,042 7/1982 Smith 128/DIG. 20
4,599,340 6/1986 Takahashi 128/26
4,614,179 9/1986 Quinter 128/44
4,615,232 10/1986 Hargrove 128/26
4,671,231 6/1987 Bartholme 128/26

FOREIGN PATENT DOCUMENTS

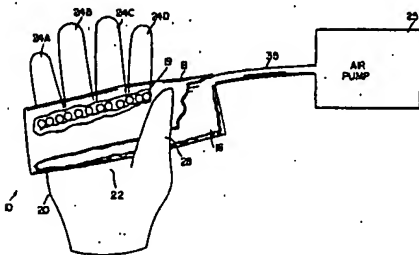
715,700 6/1966 Canada 128/DIG. 20

Primary Examiner—Edgar S. Durr
Assistant Examiner—Huong Q. Pham

(57) ABSTRACT

A passive range of motion (PROM) device which manipulates hand muscles of patients suffering from contracture. The PROM device includes a glove for receiving the hand of a patient where the glove has an elastic sleeve secured to a palm side of the glove adjacent the points on the glove where fingers join the hand. The elastic sleeve is inflated to stretch and separate the fingers, and is deflated to allow the fingers to contract.

8 Claims, 5 Drawing Sheets



United States Patent

111 3,942,194

Winter

(43) Mar. 9, 1976

(54) PROSTHETIC DEVICE FOR HANDICAPPED PERSONS

(76) Inventor: Sybil Betty Anne Winter, 10124 W. Capitol Drive, Milwaukee, Wis. 53222

(22) Filed: Aug. 30, 1974
(21) Appl. No.: 501,950

(52) U.S. Cl.: 371/312.8; 401/8
(51) Int. Cl.: A61F 1/00; A61F 1/06
(58) Field of Search: 371/2, 12.2, 1; 401/6, 8

References Cited

UNITED STATES PATENTS
2,819,140 6/1959 Nelson 371/2.8 X

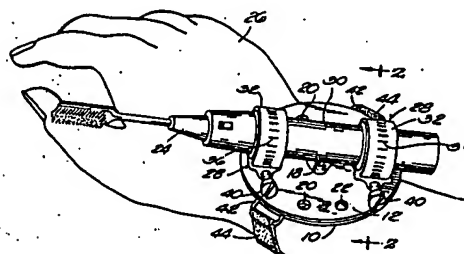
Primary Examiner—Ronald L. Frinks

Attorney, Agent, or Firm—Wheeler, Merrill, House & Fuller

ABSTRACT

Two stiff discs are rotatably attached together in face-to-face contact, one of the discs having a ring of openings therein, and the other disc having a nipple positioned to engage and latch in the openings. An implement holder is attached to one of the discs and a strap is attached to the other disc for strapping the two discs and implement holder to a person's hand. By rotating the disc carrying the implement holder with respect to the other disc, and clamping it in the desired position, the implement holder can be oriented in the proper rotary position for use of a predetermined implement by the person. The implement can be a knife, fork, comb, tooth brush, or any other suitable implement. The disc can be strapped to the palm of the person's hand, to the back of the hand, or to the wrist.

7 Claims, 5 Drawing Figures



UNITED STATES PATENT AND TRADEMARK OFFICE
US00546444A

United States Patent

111 Patent Number: 5,464,444

Farquharson et al.

(43) Date of Patent: Nov. 7, 1995

(54) ATTACHMENT FOR ARTIFICIAL ARM PROSTHETIC DEVICE

FOREIGN PATENT DOCUMENTS

(76) Inventor: Ronald B. Farquharson, Rm. 1, Box 2486 CH 624, Brazoria, Tex. 77622;
Dunay P. Goll, Rm. 3, Box 3, Angleton, Tex. 77515

0484180 9/1917 France 623/65
0306713 9/1918 Germany 623/65
0323433 9/1920 Germany 623/65
0645093 9/1923 Germany 623/65
0100542 9/1923 Switzerland 623/65

OTHER PUBLICATIONS

(21) Appl. No.: 216,624
(22) Filed: Mar. 23, 1994

High Tech for the Handicapped pp. 78-79 (1991) by Larry Kaufman, Enlow Publishers, Inc. N.J.

(51) Int. Cl.: A61F 2/44; B21J 17/00
(52) U.S. Cl.: 623/65; 623/61; 623/62; 901/28; 901/29

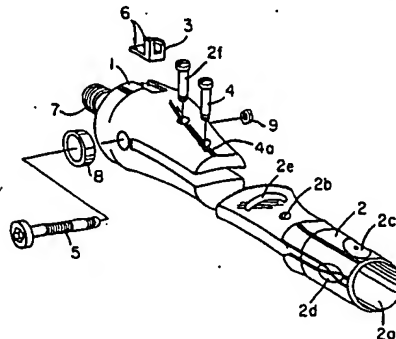
Primary Examiner—David H. Willis
Assistant Examiner—Bruce E. Snow

(58) Field of Search: 623/61, 62, 65; 901/28, 29; 74/93, 14

(57) ABSTRACT

A terminal device is described which is attachable to the end of a prosthesis on an arm and there serves as an attachment site for a variety of tools or implements designed to mate with the terminal device. The terminal device comprises a firm wedge part in operable and pivotal combination with a second main part, the combined main parts providing on one end a device for attaching to the end of an arm prosthesis, and on the other a device for attaching a variety of implements, the said device for implement attachment providing articulation capabilities that allow positioning of the implements in a variety of positions relative to the position of the arm prosthesis. Among the implements which can be attached are for example: cutting tools (such as saws, files, knives, scrapers, and awls); various wrenches (such as open end wrenches, closed end wrenches, ratchet wrenches, adjustable wrenches, Allen wrenches, and pipe wrenches); and a variety of other implements such as spoons, scrapers, spatulas, planes, brushes, fishing rods, and stirring devices.

13 Claims, 12 Drawing Sheets



United States Patent (19)

(11) 4,324,018
(45) Apr. 13, 1982

(54) PAINT EQUIPMENT CLEANING TOOL
(76) Inventor: Steve O. Olsson, 7951 Chicago Ave. South, Minneapolis, Minn. 55420

(21) Appl. No. 141,065
(22) Filed: Apr. 17, 1980
(31) Int. Cl. 2: B44 3/00
(32) U.S. Cl. 15/234 R; 15/104.04; 15/105; 15/243
(33) Field of Search: 15/237 R, 236 R, 103, 15/111, 104.04, 243, 401

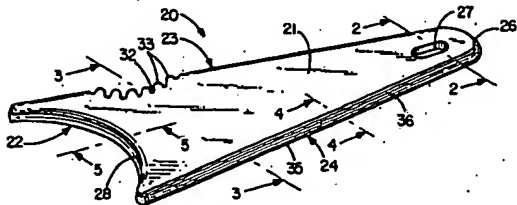
(56) References Cited
U.S. PATENT DOCUMENTS
D. 37,141 6/1897 Crossman D7/181
D. 347,379 1/1978 Dunn, Jr. D7/181
790,228 1/1980 Rohrer 15/234 R X
1,860,824 1/1938 Kern 15/234 R X

1,019,447 1/1962 Geyson 15/234 R
1,373,436 1/1968 Dahm 15/236 R X
1,707,140 1/1973 Dahm 15/234 R

Primary Examiner—Chris K. Moore
Attorney, Agent, or Firm—Burd, Bartz & Outchouff

(57) ABSTRACT
A paint applicator cleaning tool for cleaning painting equipment, such as a paint roller, paint pads, and paint pans. The tool comprises a flat base having a first side with a first arcuate notch having an uninterrupted edge and curved to substantially conform to the outer periphery of a portion of a standard paint roller. A second side of the base has a second arcuate notch having a plurality of teeth operable to fluff the nap of the paint roller. The base has a third side which includes an elongate linear edge for cleaning paint pads and pans and the like.

17 Claims, 13 Drawing Figures



United States Patent (19)

(11) Patent Number: Des. 386,372
(45) Date of Patent: Nov. 18, 1997

(54) TOOL
(76) Inventor: Sherman L. Weiss, 11360 Sherman Way, San Diego, Calif. 92132

(21) Appl. No. 55,782
(22) Filed: Jun. 13, 1996
(31) LOC (6) Cl. 06-65
(32) U.S. Cl. D9/14; D22/23; D32/42; D32/49
(33) Field of Search: D6/14, 19, 43, D4/103; D7/642; D22/23, 42, 46, 49; 7/105, 113; 15/103, 236.01, 236.03, 236.05, 236.07, 236.08, 236.09, 243.1; D4/136; D22/23

(56) References Cited
U.S. PATENT DOCUMENTS
D. 94,943 3/1933 Budge D7/642
D. 202,634 10/1945 Carls D32/43
D. 337,775 6/1960 Paudyal 7/113
790,228 1/1980 Rohrer 15/103
2,962,648 4/1962 Brown 15/103
4,234,018 4/1982 Olsson 15/234 R X
1,231,332 10/1993 Collins 7/105
5,572,762 12/1993 Hsu 15/103
5,283,922 2/1994 Lim et al.

FOREIGN PATENT DOCUMENTS
2770464 3/1994 United Kingdom 15/234 R

OTHER PUBLICATIONS

Alway Tools Inc. Catalog, 1993, p. 10, D613 Buckle Disposable Putty Knife.

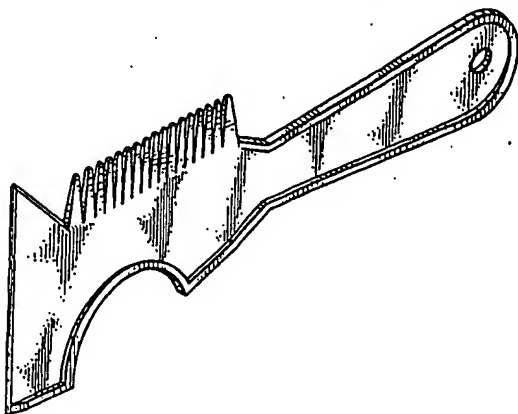
Primary Examiner—Friedrich G. Drenth
Assistant Examiner—Richard Soltes
Attorney, Agent, or Firm—Marshall A. Lerner; Marvin H. Kolesberg; Michael J. Ratz

(57) CLAIM
The ornamental design for a tool, as shown.

DESCRIPTION

FIG. 1 is an isometric view of the tool showing my new design.
FIG. 2 is a front view thereof;
FIG. 3 is a right-side view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof, and
FIG. 7 is a left-side view thereof.

1 Claim, 1 Drawing Sheet



United States Patent (19)

(11) Patent Number: Des. 312,379
(45) Date of Patent: Nov. 27, 1990

(54) ERGONOMIC PUTTY KNIFE
(76) Inventor: Salvador E. M. Coash, Xochitlaco #718, Mexico D.F., Mexico, 03630

(21) Term: 14 Years
(22) Filed: Oct. 21, 1986
(31) U.S. Cl. D6/98; D6/107
(32) Field of Search: D6/107; D22/111; D7/130, 131; 30/714, 715, 717, 162, 329, 33, 337

(56) References Cited
U.S. PATENT DOCUMENTS
D. 143,046 11/1949 Stern D7/130
D. 183,837 1/1938 Leiman D7/130
D. 234,839 4/1975 Colling et al. D7/130
D. 248,081 1/1983 Browne et al. D6/98
1,793,982 6/1957 Machin 20/90.1

OTHER PUBLICATIONS
Tech-Tool, Inc. Cat #16, ©1970, p. 81, Spenda #1.

Buffalo/Novocor/Lachute, Cat. #109, publ. 1984, p. 51.
Henry Schick, Inc., Fall '86-Winter '87 Cat., p. 184.
Spencer Mead Dental, Inc., Winter '85-'86 Cat., p. 181.

Primary Examiner—Bruce W. Dunklin
Assistant Examiner—Charles E. Heflin
Attorney, Agent, or Firm—Silverman, Case & Singer, Ltd.

(57) CLAIM
The ornamental design for ergonomic putty knife, substantially as shown and described.

DESCRIPTION

FIG. 1 is a rear, left side perspective view of the ergonomic putty knife of the invention;
FIG. 2 is a front, right side perspective view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a front elevational view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a left side elevational view thereof;
FIG. 7 is a top plan view thereof;
FIG. 8 is a bottom plan view thereof; and
FIG. 9 is a top perspective view thereof.



United States Patent (19)

(11) Patent Number: 5,956,799
(45) Date of Patent: Sep. 28, 1999

(54) PUTTY KNIFE AND SCRAPER HANDLE
(76) Inventor: Mark Thomas Panaccione, 12732 SW. Bradley Ln., Tigard, Ore. 97224;
Donald Paul Cummings, 19 Old Village Rd., Sudbury, Mass. 01546

(21) Appl. No. 08/924,758
(22) Filed: Sep. 10, 1997
(31) Int. Cl. A47L 13/02
(32) U.S. Cl. 15/234.01; 15/433.1; 16/111 R; 81/77.1
(33) Field of Search: 15/433.1, 233.4, 15/234.01; 16/110 R, 207/109, 3402, 81/77.1, 472, 900

(56) References Cited
U.S. PATENT DOCUMENTS
264,327 9/1882 Haley 81/77.1
1,512,920 10/1924 Osble 81/77.1
1,694,519 12/1928 Osble 81/972
4,334,514 6/1983 Mellette et al. 207/69
4,639,029 1/1987 Kozlowski
4,711,021 1/1988 Kozlowski
4,739,536 4/1988 Barden et al.
4,969,221 11/1990 Mader et al.
5,204,984 5/1993 Mega 15/234.01

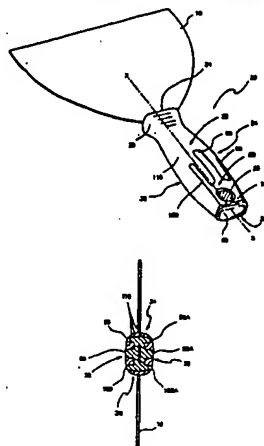
Advertisement from Feb. 1997 Industrial Products Bulletin, p. 61.

Primary Examiner—Teresa R. Till
Attorney, Agent, or Firm—Donald R. Kilgous

(57) ABSTRACT

An ergonomic putty knife and scraper handle manufactured from at least two different barbed injection molded polyurethanes having a plurality of barbed longitudinal ribs embedded in a softer overlay but exposed on both top and bottom surfaces in strategic locations. The longitudinal ribs providing non-binding contact with fabric surfaces to ease the insertion and removal of the handle into and from a user's pocket for temporary storage of the tool when not in use. When employing the tool for its intended purpose, however, the user enjoys the comfort, efficiency and safety of an ergonomic handle offering a "soft touch" to thumb and finger in those locations requiring superior graspability.

20 Claims, 14 Drawing Sheets



**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☒ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER: _____**

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.